

HAJOCA
PLUMBING
CATALOG

W



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A TYPICAL EXAMPLE OF MANY
PUBLIC BUILDINGS WHICH ARE BEING
EQUIPPED WITH HAJOCA PLUMBING



HAJOCA PLUMBING

CATALOG W

HAINES, JONES & CADBURY Co.

MAKERS OF PLUMBING SUPPLIES

1130-1144 RIDGE AVENUE PHILADELPHIA

1111-1117 BUTTWOOD STREET
1110-1122 BUTTWOOD STREET

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503-513 NORTH 12TH STREET

NEW YORK
101 PARK AVENUE

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14 AND 16 S. NINTH ST.

SAVANNAH
CONGRESS AND MONTGOMERY STS.

SAN FRANCISCO
857 FOLSOM ST.

IRON FOUNDRY NORRISTOWN, PA.

PREFACE

IN deciding the contents of this catalog our choice was governed by recommendations received from men constantly using such books. The basic demand has been for a reference catalog easy to handle, light to carry, convenient to file and applicable to every specification because of its balanced completeness and the reputable quality of the goods illustrated. This volume is offered to meet these requirements.

The contents show the results of our own work in the advancement of sanitation during recent years and how our efforts to produce designs of distinctive merit have kept pace with our facilities to make plumbing fixtures of known worth and quality.

Daily reference will reveal the practical completeness of this catalog; in its pages will be found plumbing fixtures for every type of building ranging from the finest to the most moderate-priced residence; for the modern hotel or such as may be specified for a club house, industrial plant, or operation buildings.

Many fixtures are designated in this catalog by both name and number. This plan will be helpful to many who remember names more easily than numbers.

It has been customary to state that our customers' interest and our own are identical. This is the policy followed in every transaction and in all our dealings. On this basis our customer is sure of complete satisfaction and our guarantee is observed in spirit and in letter.

With our well-equipped foundries and plant at Norristown, Pa., and Philadelphia, and our amply stocked warehouses at Philadelphia, Richmond, Va., Savannah and San Francisco, our customers can be well served over a wide territory with the Hajoca plumbing fixtures shown in the following pages.

HAJOCA SHOWROOMS

AT the addresses below we have complete showrooms. The various styles of fixtures are set up side by side for ready comparison; and in some of the showrooms there are also complete bathrooms in which the fixtures are shown as if in practical operation. The catalog illustrations, fine as they are, fail to give as good an idea of the fixtures as a close range inspection of the goods themselves, altho the catalog makes the best substitute when a visit to our showrooms is impossible.

These showrooms are maintained for the convenience of architects, plumbers, their clients, and all interested in plumbing goods. The exhibits are kept up to date and include the latest ideas in sanitary equipment. Our salesmen are always ready to explain the advantages of the different styles, and when fixtures have been personally selected by a client, the embarrassment of any possible misunderstanding and dissatisfaction after the work is done is eliminated.

There has been a growing demand for more and better sanitary appointments in factories and workshops and to take care of this our Philadelphia showrooms have been excellently equipped with a varied display of industrial fixtures. We cordially invite architects and plant engineers to use our facilities in connection with factory planning.

Our showrooms, offices, factory and foundries, including our iron foundry at Norristown are at all times open for the inspection of our customers. We feel that the more people know about the way Hajoca goods are made the more they will appreciate their value.

LOCATION OF SHOWROOMS

Philadelphia, 1136 Ridge Avenue
Richmond, Va., 14 and 16 South 9th Street
Savannah, Congress and Montgomery Streets
San Francisco, 857 Folsom Street

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THE TRADE MARK ITS MEANING



"HAJOCA," formed from the corporate name of HAINES, JONES & CADBURY COMPANY, stands for sixty years' experience and success in making the most modern and approved plumbing supplies and sanitary fixtures, and is inseparably linked with the reputation that has followed Hajoca Quality.

The Trade Mark designates our confidence in the worth and quality of Hajoca products and is the guarantee of right design, careful workmanship, lasting service and complete satisfaction.

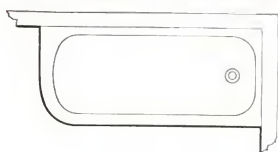
HAJOCA BATHS

THE mechanical and sanitary features of Hajoca bath fittings have materially contributed to the popularity of Hajoca Tiled-in Baths. Free from complicated or delicate parts, the supply valves, connections, wastes and under floor fittings are easily adjusted to any slight deviations in the floor or wall, thus assuring a fine finished appearance on the tiled wall, practical pipe connections and a satisfactory and complete drainage of used water.

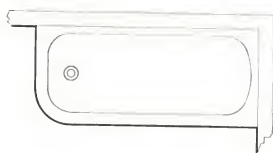
Built into the floor and wall, the tiled-in bath makes an excellent shower receptor and enclosure by the addition of a curtain rod and curtain, and to this feature it owes much of its popularity. On the following pages several showers are shown with tiled-in baths and indicate the possibilities of such combinations. We recommend the specification and sale of showers with this design of bath.

Reference should be made to the labor saving features of the tiled-in bath. Dust and moisture-gathering spaces back and underneath are eliminated. The supply and waste fittings on a number of designs are installed in either the end or back wall thus lessening exposed metal parts to be cleaned and polished. These economic advantages are as welcome in the small residence with its one or more baths as in the modern hotel with its hundreds of plumbing fixtures to be cleaned daily.

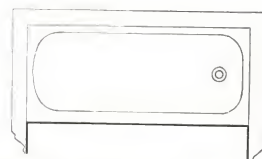
The tiled-in bath has rapidly won foremost place in popular favor and is now almost universally selected for modern requirements. We highly recommend its installation. With such a range of choice as shown in this catalog, no modern residence, apartment or hotel need be built without possessing the architectural merits and the sanitary and service advantages of our tiled-in baths.



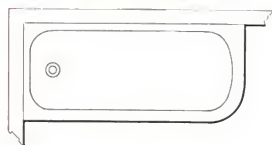
Bath for Right-Hand Corner;
fixtures at wall end



Bath for Right-Hand Corner;
fixtures at exposed end



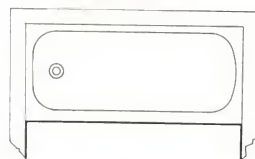
Bath for Recess; fixtures at
right-hand end



Bath for Left-Hand Corner;
fixtures at wall end



Bath for Left-Hand Corner;
fixtures at exposed end



Bath for Recess; fixtures at
left-hand end

These diagrams illustrate the various possible arrangements of corner and recess tiled-in baths. When ordering state clearly the arrangement desired.

THE HAJOCA No. 10 WASTE AND ITS RELATION TO HEALTH

THIS bath waste represents the most important sanitary advance in a device for the control and disposal of used bath water since the chain and stopper was designed. It has a cage stopper operated by a brass rod in a single tube overflow and connected to a china lever on the tiled wall (see sectional illustration, Plate W-1).

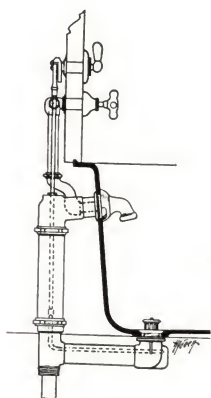


Plate W-1
The Hajoca No. 10 Waste

By one throw of the lever the stopper is dropped down in position and the water is received and held in the bath only. The water cannot back up or circulate in concealed pipes or passages to which particles of soap, grease, cuticle, dirt and possible disease germs from previous bathers have adhered. This insures a bath in water as pure and clean as the spotless interior of the fixture itself, a condition much more pleasing to the senses than bathing in water contaminated by sediment from other bathers. It is a positive safeguard against the transmission of disease germs via the bath tub waste. By reversing the lever the stopper is raised and every drop of used water is discharged.

The overflow of the Hajoca No. 10 Waste is large and connects direct to the bath without passing thru an inner concealed tube. It has ample capacity to carry off direct the normal flow of hot and cold water without risk of flowing over the edge of the rim and damaging the floor or ceiling and furnishings below.

In the light of sanitary science this device is an indispensable necessity. The situation is thus summed up in a health bulletin issued by the Pennsylvania State Commissioner of Health: "The question of insanitary devices for discharging used dirty water from bath tubs is a serious one and bears directly upon our health and should be taken up by the people so that they may understand their objectionable features and that they may urge an act forbidding such insanitary construction."

For comparison the ordinary standpipe waste with inside overflow tube is shown (see Plate W-2). When discriminating thought is given to sanitary safeguards, the Hajoca No. 10 bath waste, Plate W-1, will be chosen for home, apartment, club and hotel.

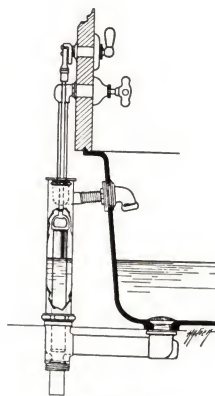


Plate W-2

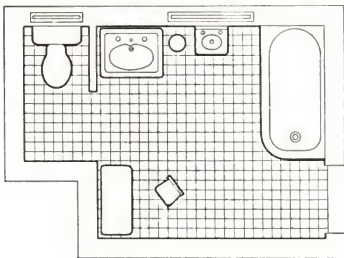


Hajoca Bathroom, Plate W-10

As so much of the well-being of the home depends upon modern plumbing, every consideration is now given to its sanitary appointments. Bathrooms usually claim chief attention, and such equipment is generally chosen as will provide most adequately for the comfort and convenience of every user and add the crowning feature of beauty.

The Hajoca fixtures shown in this interior will appeal to the discriminating. The "Penn" bath is made in one single piece without joints. It tiles into the floor and walls, and presents a snow-white surface inside and out. With it all the benefits of shower bathing are provided. Both bath and lavatory are equipped with the Hajoca No. 10 sanitary wastes, which provide for each user water as clean as the fixtures themselves and

prevent soapy or other residue from previous users backing up from unclean discharge pipes when the tub or bowl is filled. For cleansing teeth and mouth a separate dental bowl is provided and as the bathroom is often used as a dressing room the dressing table will be found indispensable.



For detailed descriptions of fixtures illustrated, see pages 5 for Bath, 9 for Shower, 81 for Lavatory, 107 for Dental Basin, 173 for Closet, and 152-165 for Accessories.

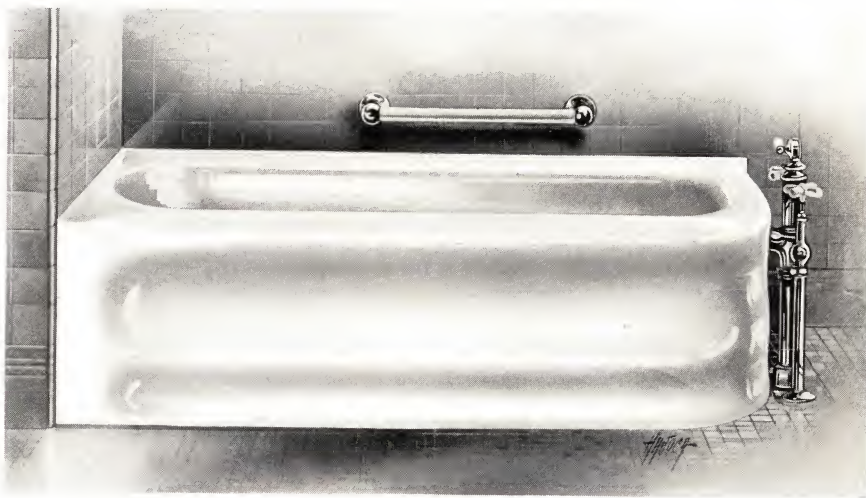


Plate W-14

Hajoca No. 204-6 "Penn" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at exposed end, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim from wall line, 29 1/4 inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim 3/4 inch into tile at back and end; the fixtures shown require an additional space of 5 inches.

Sizes (nominal).....	4 1/2 feet	5 feet	5 1/2 feet	6 feet
Actual length from wall to end of bath.....	53 1/4 inches	59 1/4 inches	65 1/4 inches	71 1/4 inches
Bath with supply and waste fittings as described.....	\$	\$	\$	\$

When ordering specify if for left-hand corner as shown, or for right-hand corner; see diagrams page 2.

THIS porcelain enameled bath is massive in appearance, this feature being specially apparent in the heavy 3 3/4-inch roll rim. Its surface is without joints or seams and beautifully finished with the highest quality snow-white enamel inside and out. The design is desirable for the finest bathroom in private residence, hotel or apartment house. It is enameled both inside and out and can easily be kept clean, the outside curves helping in this work.

The cross section, Plate W-15, shows how the various styles of the "Penn" bath tile into the wall and floor; it also gives a good idea of how all unnecessary weight has been eliminated in their design.

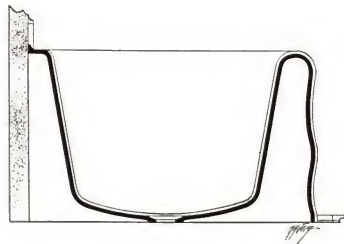


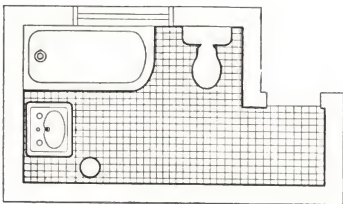
Plate W-15



Hajoca Bathroom, Plate W-20

IT is specially desirable when the foot of the bath is placed near the water closet to install the supply and waste fittings in the wall as shown in this interior. There is then no piping to be corroded by acid or affected by moisture and the work of keeping the fixtures spotless is considerably lessened.

Because of its superior merits and excellent design, this tiled-in bath has grown enormously in popular favor and is the frequent choice for new construction work and for the replacement of old style baths in buildings erected years ago. It practically becomes a part of the room and eliminates dust-and-moisture-gathering spaces back and underneath.



Lavatories with large bowls and beautiful gloss surfaces have popularized Hajoca Vitreo china designs with both architect and client. The brass work is finished in lustrous nickel.

For detailed descriptions of fixtures illustrated, see pages 7 for Bath, 84 for Lavatory, 176 for Closet, and 152-165 for Accessories.

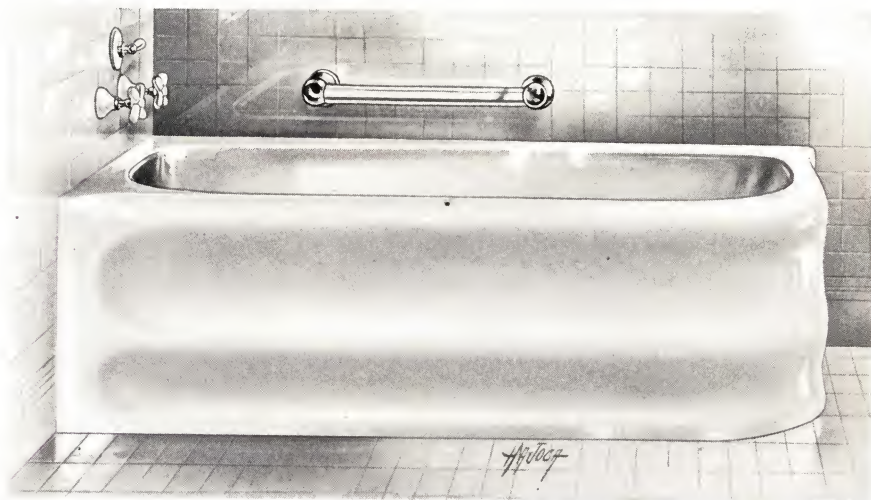


Plate W-22

Hajoca No. 203-6 "Penn" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-14.

Sizes (nominal).....	4½ feet	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described	\$	\$	\$	\$

If preferred, the supply nozzle can be furnished over the top of the bath, as shown on Plate W-28.

Plate W-23. Hajoca No. 203-6 "Penn" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in back wall, with nozzle thru overflow at end of tub, china lever handle on waste and No. 12-C all china index handles on supply valves with china flanges, no supply or connecting pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-22.

Sizes (nominal).....	4½ feet	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described.....	\$	\$	\$	\$



Plate W-23

The fittings shown in Plate W-23 are placed in the rear wall directly back of the waste outlet in the bath.

When ordering the above baths specify if for left-hand corner (as shown in Plate W-22) or for right-hand corner (as shown in Plate W-23); see also diagrams page 2.



Plate W-26

Hajoca No. 203-6 "Penn" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings with by-pass for shower concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Hajoca double compression shower mixing valve concealed in end wall with No. 12-C all china index handles and china flanges, cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall, no connecting pipes included; "L" pattern curtain rod with wall flanges, white saten curtain and fasteners, hook and chain. All exposed parts nickel plated.

Dimensions—Same as Plate W-14.

Sizes (nominal).....	4½ feet	5 feet	5½ feet	6 feet
Bath with supply and waste fittings and shower, including curtain, rod, etc., as described.....	\$	\$	\$	\$



Plate W-28

Hajoca No. 203-7 "Penn" porcelain enameled bath with porcelain enameled front, to tile into recess, end outlet, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru wall over rim, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Hajoca No. 4 shower mixing valve concealed in back wall with china lever handle and wall flange and compression stop with No. 12-C all china index handle and china flange, tubular shower head with air inlet valve and pipe to wall, no supply or connecting pipes included; curtain rod with wall flanges, white sateen curtain, hook and chain. All exposed parts nickel plated.

Dimensions—Length, see below; width over rim from wall line, $29\frac{1}{4}$ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim $\frac{3}{4}$ inch into tile at back and ends.

Sizes (nominal)	$4\frac{1}{2}$ feet	5 feet	$5\frac{1}{2}$ feet	6 feet
Actual length between walls....	$51\frac{1}{4}$ inches	$57\frac{1}{4}$ inches	$63\frac{1}{4}$ inches	$69\frac{1}{4}$ inches

Bath with supply and waste fittings and shower, including curtain, rod, etc., as described.

\$	\$	\$	\$
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When ordering specify if fittings are to be at right end as shown, or at left end; see diagrams page 2.

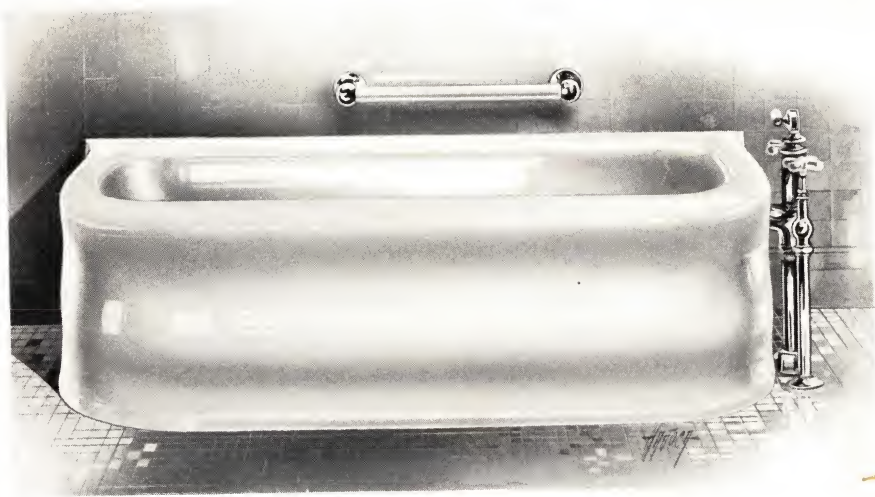


Plate 'W-30

Hajoca No. 204-5 "Penn" porcelain enameled bath with porcelain enameled front and ends, to tile into back wall, outlet at end, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim from wall line, 29 1/4 inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim 3/4 inch into the tile at back; the fixtures shown require an additional space of 5 inches.



Plate W-31

Sizes (nominal) . .	5 feet	5 1/2 feet	6 feet
Actual length over rim	61 1/2 inches	67 1/2 inches	73 1/2 inches

Bath with supply and waste fittings as described	\$	\$	\$
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When ordering specify if fittings are to be at right end as shown, or at left end.

Plate W-31. Hajoca double compression shower mixing valve concealed in wall with No. 12-C all china index handles and china flanges, cast brass rain shower head with removable face, air inlet valve and pipe to wall, no connecting pipes included; "U" pattern curtain rod with wall supports, white sateen curtain, fasteners, hook and chain. All exposed parts nickel plated.

As described \$

The shower described in Plate W-31 is admirably suited for installation with bath Plate W-30.

METHODS OF INSTALLING HAJOCA BATH FITTINGS IN WALL

THO the working parts of Hajoca bath and shower fittings can be taken out from the front when repairs are needed, access to the piping and connections from the back is essential and should always be provided for when the tiled-in bath is installed.

This can be done in a number of ways. Plate W-32 shows one method by utilizing the partition at the foot of the bath.

The dimensions of a utility closet such as shown should not be less than $4\frac{1}{2}$ inches from front of tile to back of fittings; width, 18 inches; height, 54 inches. In case shower valves are not installed the utility closet need not exceed 30 inches in height.

Another method is shown Plate W-46 where the linen closet affords access to the fittings. Still another method is shown Plate W-64 where a special compartment is built at the foot of the bath when access cannot be had thru the partition or wall.

Information as to the practicability of installing fittings in any location other than shown in the bath illustrations in this catalog will be gladly given upon request.

Our facilities for making practical suggestions in the early planning of any large work will be found helpful. It has often been the means of saving much unnecessary preliminary work and avoiding costly methods of installation. To cite its practical results, one firm of architects invited us to suggest the best type of installation for a 600 bathroom hotel. In carrying out our recommendations, savings in installation costs were effected and valuable room space saved.

The mechanical and sanitary features of the Hajoca bath fittings have materially contributed to the popularity of Hajoca tiled-in baths. Free from complicated and delicate parts, the supply valves, connections, wastes, and under floor fittings are easily adjusted to any slight deviations in the floor or wall, thus assuring a fine finished appearance of the fixtures on the tiled wall.

THE USE OF STOPS

Modern plumbing experts recommend the use of a stop on each supply pipe to control the volume of flow as well as for convenience when rewashering the bath fixture. This practice is equally desirable with exposed supply pipes, as well as with those concealed in the wall. In the section on Plumbers' Brass Work will be found stops suitable for all such requirements.



Plate W-32

Fittings in Utility Closet



Plate W-36

Hajoca No. 205-6 "Sylvania" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at wall end, with Hajoca No. 10 waste, No. 4 mixing valve and diverting valve concealed in wall at end of bath, with nozzle thru overflow, and with china lever handle and china flange on waste, mixing valve and diverting valve; cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall with flange; pipes from floor to mixing valve and from diverting valve to shower pipe *not* included. "L" pattern curtain rod with wall flanges, white sateen curtain and fasteners, hook and chain. All exposed parts nickel plated.

Dimensions—Same as Plate W-38.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings and shower including curtain, rod, etc., as described	\$	\$

When ordering specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

The diverting valve is a "switching" device to let the water flow one of two ways, either down to the bath or up to the shower as desired. Its wall flange is marked "Bath" and "Shower." When a tub bath is wanted the bather throws the diverting valve lever to "Bath," opens the mixing valve and the water goes to the bath. When a shower is wanted the lever is thrown to "Shower" and the water from the mixing valve then goes to the shower head.

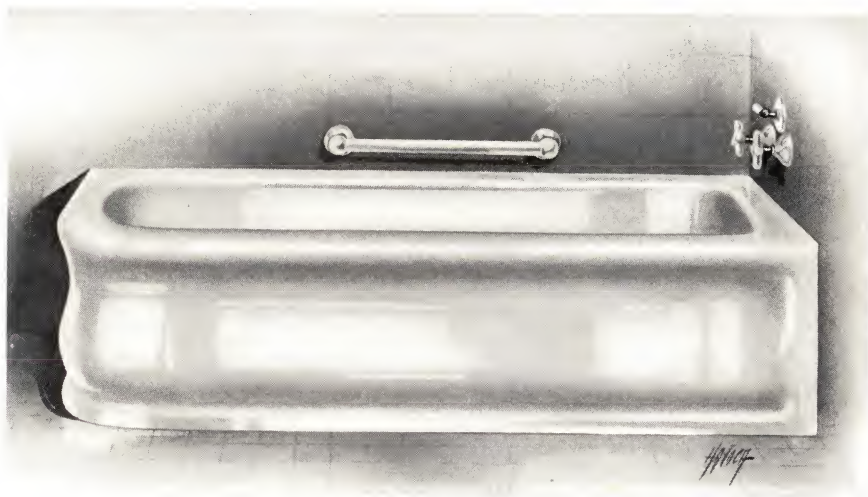


Plate W-38

Hajoca No. 205-6 "Sylvania" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Length, see below; width over rim from wall line, $32\frac{1}{4}$ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim $\frac{3}{4}$ inch into tile at back and end.

Sizes (nominal)	5 feet	$5\frac{1}{2}$ feet
Actual length from wall to end of tub	$62\frac{1}{4}$ inches	$68\frac{1}{4}$ inches
Bath with supply and waste fittings as described	\$	\$

Plate W-39 (not illustrated). Hajoca No. 205-6 "Sylvania" porcelain enameled bath, same as Plate W-38, except with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath with nozzle thru wall over rim, (same as shown Plate W-28), with china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-38.

Sizes (nominal)	5 feet	$5\frac{1}{2}$ feet
Bath with supply and waste fittings as described	\$	\$

When ordering Hajoca No. 205-6 baths, specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

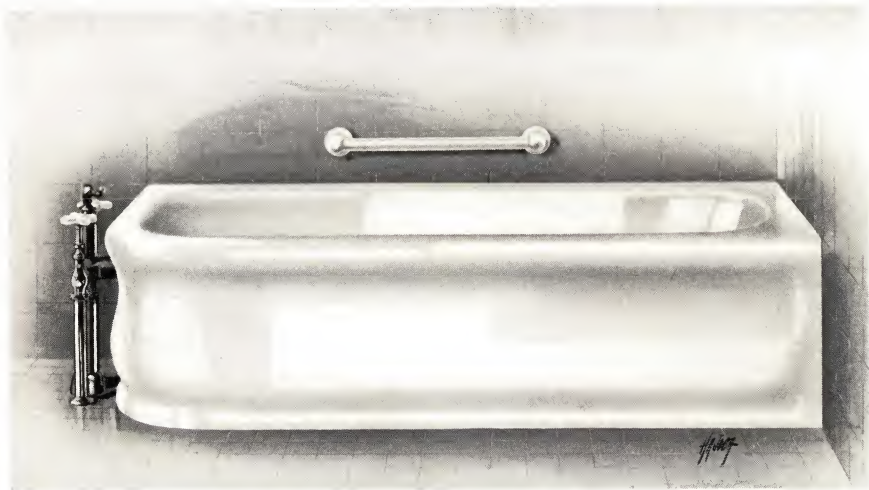


Plate W-40

Hajoca No. 206-6 "Sylvania" porcelain enameled bath with porcelain enameled front and end, to tile into corner, outlet at exposed end, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Same as Plate W-38. The fixtures shown require an additional space of 5 inches.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$

When ordering specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

THIS bath is recommended for installation where beauty of design and utilitarian merits are considered of equal importance.

Attention is directed to the Hajoca bath waste and supply fittings. The public wishes enlightenment by architect and plumber on the best waste device for the disposal of used bath water. The Hajoca No. 10 waste adds to the sanitary effectiveness of the bath by preventing soapy residue hidden in concealed waste tubes from backing up to contaminate the clean bath water, whereas the ordinary standpipe waste can make the finest bath insanitary. For further description, see page 3.

Hajoca bath fittings are made of red metal; their service will be in keeping with the permanently tiled-in bath. All working parts can be taken out without disturbing the piping and rewashering can thus be easily done. Such practical features should claim the consideration of all who build for permanence.

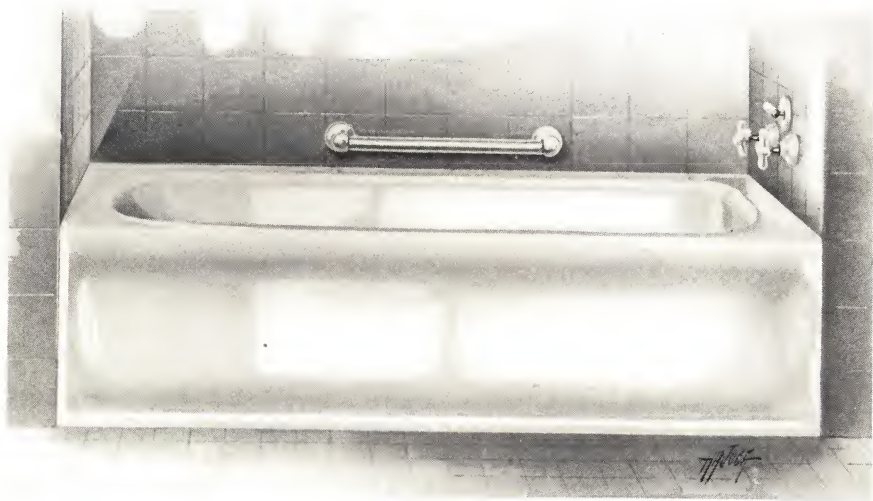


Plate W-42

Hajoca No. 205-7 "Sylvania" porcelain enameled bath with porcelain enameled front, to tile into recess, end outlet, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Length, see below; width over rim from wall line, $32\frac{1}{4}$ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim $\frac{3}{4}$ inch into tile at back and ends.

Sizes (nominal).....	5 feet	$5\frac{1}{2}$ feet
Actual length between walls.....	$61\frac{1}{2}$ inches	$67\frac{1}{2}$ inches
Bath with supply and waste fittings as described.....	\$	\$

When ordering specify if fittings are to be at right end as shown, or at left end; see diagrams page 2.

FROM tiled-in baths a satisfactory and complete drainage of used water can always be provided for by using the Hajoca No. 26 bath trap (see Plate W-175), with a one-inch extension piece. This feature is clearly shown in the accompanying illustration. The extension piece provides sufficient fall between the bath outlet and the trap outlet to insure excellent drainage of all used water from the bath.

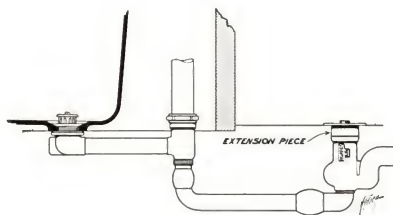


Plate W-43

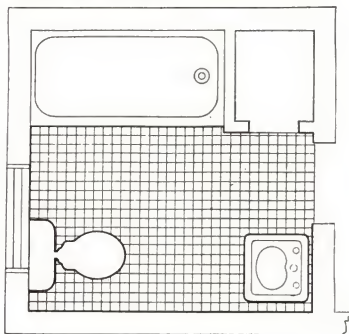
Showing the Hajoca No. 26 bath trap with extension piece, connected to under floor fitting of a tiled-in bath



Hajoca Bathroom, Plate W-46

THIS interior with its adjoining linen closet has been satisfactorily built in a space 6 feet by 8 feet, utilizing every inch to good advantage, and making the linen closet serve the extra purpose of utility chamber to give access to the supply and waste fittings for the bath.

The "Bartram" tiled-in recess bath eliminates dust and moisture collecting spaces back, underneath and at the sides of the fixture, and with the shower provides for moderate cost homes the sanitary conveniences and bathing luxuries furnished usually only in higher priced residences.



The bottom of the bath gives plenty of standing room for shower bathing. Any splash striking the tiled walls or curtain drains into the bath. This combination insures the advantages of both bath and shower, without requiring a separate shower enclosure.

For detailed descriptions of fixtures illustrated, see pages 21 for Bath and Shower, 86 for Lavatory, 186 for Closet, and 152-165 for Accessories.

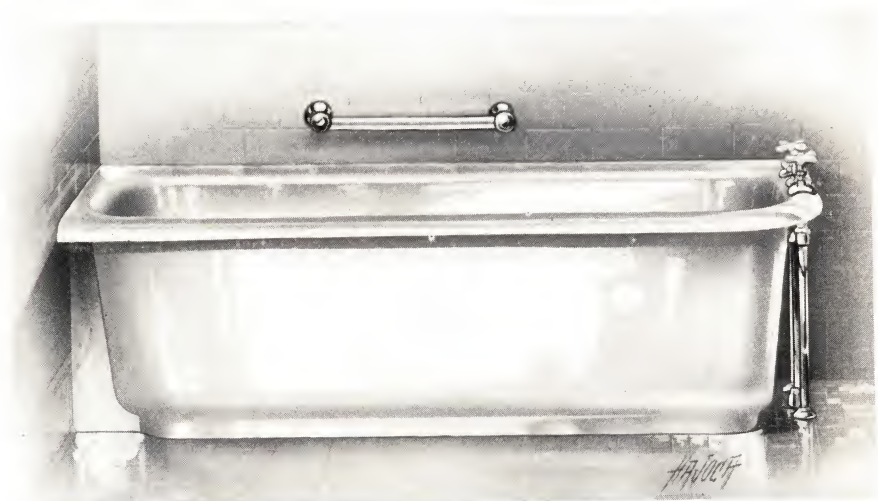


Plate W-48

Hajoca No. 236-6 "Bartram" porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at exposed end, with nickel-plated Hajoca No. 10 waste with china lever and compression top nozzle supply fittings thru rim, with No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim from wall line, 28 1/2 inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim 1/2 inch into tile at back and end.

Sizes (nominal).....	4 1/2 feet	5 feet	5 1/2 feet
Actual length from wall to end of tub.....	54 inches	60 inches	66 inches
Bath with supply and waste fittings as described....	\$	\$	\$
Same, with exterior of bath unfinished.....	\$	\$	\$

Plate W-49. Hajoca No. 236-6 "Bartram" porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at exposed end, with nickel-plated Hajoca No. 8 connected waste and overflow, chain and rubber stopper, No. 3 compression bath faucet with No. 3-C china index handles, offset ball ell couplings and 1/2-inch iron pipe weight supply pipes.

Dimensions—Same as Plate W-48.

Sizes (nominal).....	4 1/2 feet	5 feet	5 1/2 feet
Bath with supply and waste fittings as described....	\$	\$	\$
Same, with exterior of bath unfinished.....	\$	\$	\$

When ordering Hajoca No. 236-6 baths specify if for left-hand corner (as shown in Plate W-48) or for right-hand corner (as shown in Plate W-49); see diagrams page 2.

PLATE W-49 is suitable for residences of moderate cost, summer cottages, bungalows and apartments where good quality with lasting merits and modern equipment, combined with low expense are required.



Plate W-49

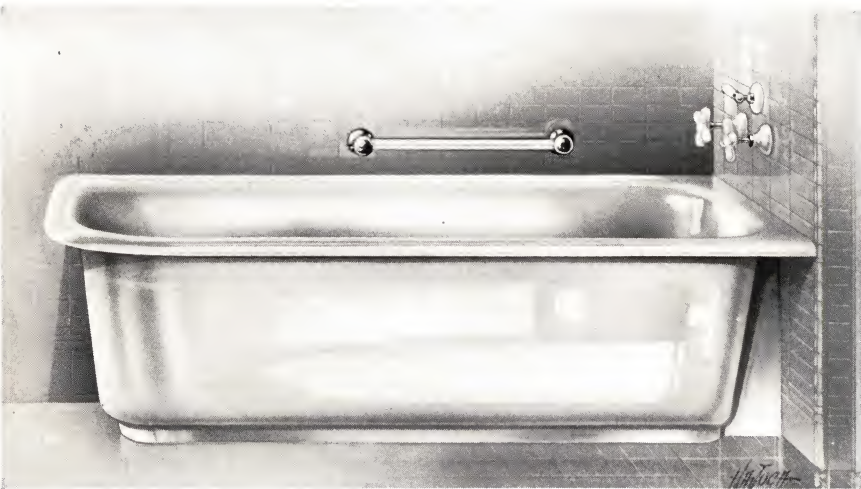


Plate W-52

Hajoca No. 235-6 “Bartram” porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Length, see below; width over rim from wall line, 28½ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim ½ inch into tile at back and end.

Sizes (nominal)	4½ feet	5 feet	5½ feet
Actual length from wall to end of tub	54 inches	60 inches	66 inches
Bath with supply and waste fittings as described	\$	\$	\$
Same, with exterior of bath unfinished	\$	\$	\$

Plate W-53. Hajoca No. 235-6 “Bartram” porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in back wall, with nozzle thru overflow at end of bath, china lever handle on waste and No. 12-C all china index handles on supply valves with china flanges, no supply or connecting pipes included. All exposed parts nickel plated.



Plate W-53

Dimensions—Same as Plate W-52.

Sizes (nominal)	4½ feet	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$	\$
Same, with exterior unfinished	\$	\$	\$

When the Hajoca No. 10 waste and supply fittings are desired in the back wall, they should be installed in the location shown in the illustration.

When ordering Hajoca No. 235-6 baths, specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.



Plate W-56

Hajoca No. 235-6 "Bartram" porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at wall end, with Hajoca No. 8 connected waste and overflow, chain and rubber stopper and compression supply fittings concealed in wall at end of bath with nozzle thru wall over rim, No. 12-C all china index handles and china flanges, no supply pipes included. All exposed parts nickel plated.

Hajoca No. 162 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, and Hajoca double compression shower mixing valve with No. 12-C all china index handles; "L" pattern curtain rod with wall flanges, white sateen curtain and fasteners, hook and chain.

Dimensions—Same as Plate W-52.

Sizes (nominal)	4 $\frac{1}{2}$ feet	5 feet	5 $\frac{1}{2}$ feet
Bath with supply and waste fittings and shower including curtain, rod, etc., as described	\$	\$	\$
Same, with exterior of bath unfinished	\$	\$	\$

When ordering specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

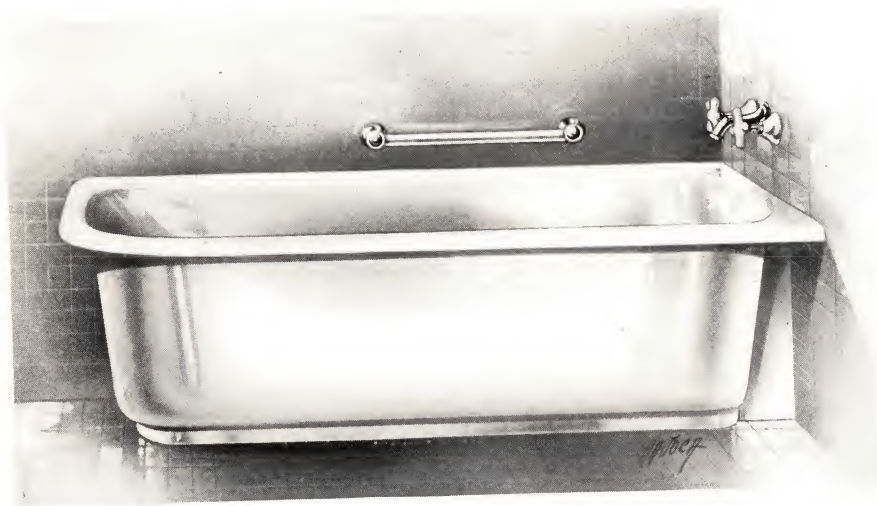


Plate W-57

Hajoca No. 235-6 "Bartram" porcelain enameled legless bath with porcelain enameled front and end to tile into corner, with 3-inch roll rim, straight ends and outlet at wall end, with Hajoca No. 8 connected waste and overflow, chain and rubber stopper and compression supply fittings concealed in wall at end of bath, with nozzle thru wall over rim, No. 12-C all china index handles and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-52.

Sizes (nominal)	4½ feet	5 feet	5½ feet
Bath with supply and waste fittings as described.	\$	\$	\$
Same, with exterior of bath unfinished	\$	\$	\$

When ordering specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

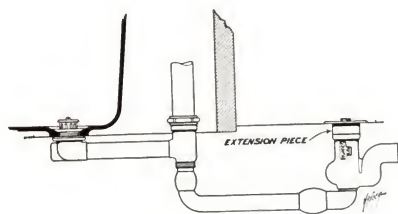


Plate W-58

Showing the Hajoca No. 26 bath trap with extension piece, connected to under floor fitting of a tiled-in bath

FROM tiled-in baths a satisfactory and complete drainage of used water can always be provided for by using the Hajoca No. 26 bath trap (see Plate W-175), with a one-inch extension piece. This feature is clearly shown in the accompanying illustration. The extension piece provides sufficient fall between the bath outlet and the trap outlet to insure excellent drainage of all used water from the bath.



Plate W-60

Hajoca No. 235-7 "Bartram" porcelain enameled legless bath with porcelain enameled front to tile into recess, with 3-inch roll rim, straight ends and end outlet, with Hajoca No. 8 connected waste and overflow, chain and rubber stopper and compression supply fittings with by-pass for shower concealed in wall at end of bath, with nozzle thru wall over rim, No. 12-C all china index handles and china flanges, no supply pipes included. All exposed parts nickel plated.

Hajoca double compression shower mixing valve concealed in end wall above bath supply fittings, with No. 12-C all china index handles and china flanges, cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall, no connecting pipes included; curtain rod with wall flanges, white sateen curtain, hook and chain. All exposed parts nickel plated.

Dimensions—Length, see below; width over rim from wall line, 28½ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim ½ inch into tile at back and ends.

Sizes (nominal).....	4½ feet	5 feet	5½ feet
Actual length between walls.....	52½ inches	58½ inches	64½ inches
Bath with supply and waste fittings and shower, including curtain, rod, etc., as described....	\$	\$	\$
Same, with exterior of bath unfinished.....	\$	\$	\$

When ordering specify if fittings are to be at right end as shown, or at left end; see diagrams page 2.

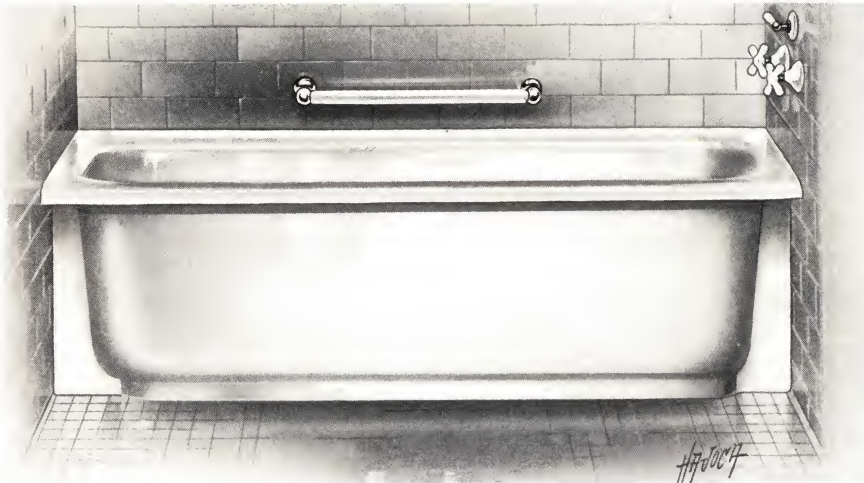


Plate W-63

Hajoca No. 235-7 "Bartram" porcelain enameled legless bath with porcelain enameled front to tile into recess, with 3-inch roll rim, straight ends and end outlet, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-60.

Sizes (nominal).....	4½ feet	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$	\$
Same, with exterior of bath unfinished.....	\$	\$	\$

The Hajoca No. 235-7 bath can be furnished with supply and waste at right end, as shown, or at left end; see diagrams page 2.

Plate W-64. Hajoca No. 235-7 "Bartram" recess bath. Specifications, dimensions and prices same as Plate W-63.



Plate W 64

THE compartment built at the foot of the tub as shown Plate W-64 serves as a utility closet when the waste and supply fittings, on account of building construction, cannot be installed in the wall. At least 8 inches should be allowed inside to enable the workman to install and adjust the fixtures. This method can be used with corner as well as recess baths.

The top may be made of opalite, Carrara glass or marble and should be securely bolted in place.

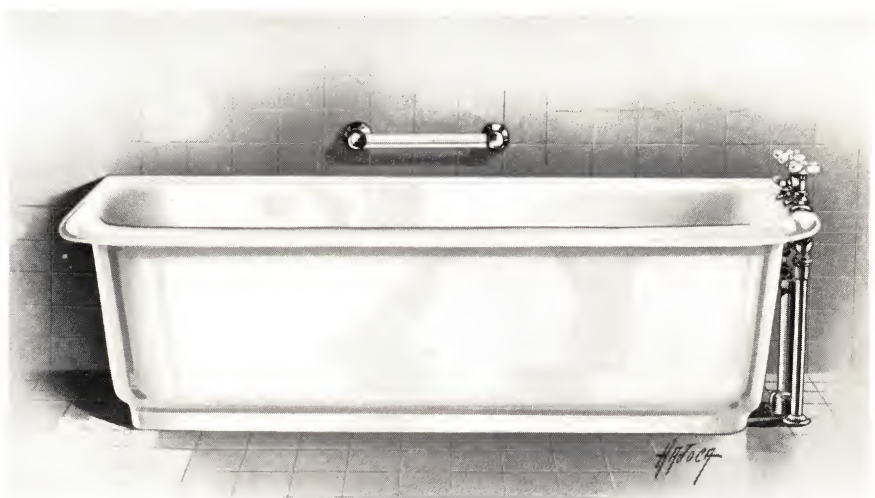


Plate W-66

Hajoca No. 236-5 "Bartram" porcelain enameled legless bath with porcelain enameled front and ends to tile into back wall, with 3-inch roll rim, straight ends and outlet at end, with nickel-plated Hajoca No. 10 waste with china lever and compression top nozzle supply fittings thru rim, with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim from wall, $28\frac{1}{2}$ inches; depth inside, 17 inches; height to top of rim, 18 inches. The measurements given are based on setting the rim $\frac{1}{2}$ inch into the tile at back.

Size (nominal).....	5 feet
Actual length over rim.....	$61\frac{1}{2}$ inches
Bath with supply and waste fittings as described.....	\$
Same, with exterior of bath unfinished.....	\$

Plate W-68 (not illustrated). Hajoca No. 236-5 "Bartram" porcelain enameled legless bath, same as Plate W-66, except with Hajoca No. 8 connected waste and overflow, chain and rubber stopper, No. 3 compression bath faucet with No. 3-C china index handles, offset ball ell couplings and $\frac{1}{2}$ -inch iron pipe weight supply pipes, same as shown in Plate W-49.

Dimensions—Same as Plate W-66.

Bath with supply and waste fittings as described.....	\$
Same, with exterior of bath unfinished.....	\$

When ordering specify if fittings are to be at right end as shown, or at left end.

This bath is specially adapted to bathrooms where corners cannot be utilized for tiling-in the bath. The shower bath as shown Plate W-31 is excellently suited for installation with the above type of bath.



Plate W-70

Hajoca No. 332-4 porcelain enameled bath on base, with 3-inch roll rim, exterior unfinished, with nickel-plated Hajoca No. 10 waste with china lever and compression top nozzle supply fittings thru rim with No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim, 30 inches; depth inside, 17 inches; height to top of rim, 22 1/2 inches.

Sizes (nominal) . . .	4 feet	4 1/2 feet	5 feet	5 1/2 feet	6 feet
Actual length over rim	48 1/4 inches	54 1/4 inches	60 1/4 inches	66 1/4 inches	72 1/4 inches
Bath with supply and waste fittings as described	\$	\$	\$	\$	\$

For other styles of waste and supply fittings which can be furnished with this bath, see Plates W-142, W-148, W-149, W-150, W-160, W-161 and W-162.

The exterior of the Hajoca No. 332-4 bath is furnished unfinished. If with exterior white finish add: No. 1, \$; No. 2, \$; for description see below.

HAJOCA EXTERIOR FINISH FOR BATHS

Hajoca No. 1 Finish is perfectly smooth and white. By this process, the rough outside is first ground off and the remaining smooth surface coated with filler, after which the body enamel is applied; several coats of each are required, each coat being thoroly baked in large ovens and rubbed down by hand to make it thin enough to prevent cracking or "crazing."

Hajoca No. 2 Finish receives fewer coats and while not as smooth as the No. 1 finish, it presents a fine appearance and is well adapted for use where a more moderate priced finish is desired.

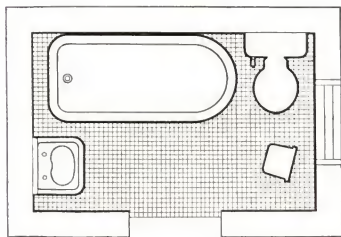
We specially commend the Hajoca finishes. With our equipment and experience in the selection of just the right materials, we are able to offer, at little if any greater cost, a quality which cannot be duplicated by the home treatment method.



Hajoca Bathroom, Plate W-72

THIS is a good example of Hajoca bathroom equipment at moderate cost. These inexpensive designs are made with the same care as our high-grade goods, and every feature has been worked out to add to the durability and convenience of the completed fixture.

The bather will find this bath (Hajoca No. 332 "Chester") roomy, with sides, ends and bottom designed for comfort. The porcelain enamel is of an excellent quality and the white glossy surface of roll rim and interior can easily be kept spotless. The shower attached directly to the bath faucet and taking up little space provides at a small outlay the benefits of an enclosed shower.



With occasional modifications this bathroom equipment is frequently chosen for bungalows, summer cottages, third-story bathrooms, moderate priced residences, community housing projects and operation work. Dependable service and economy in upkeep will result from its installation.

For detailed descriptions of fixtures illustrated, see pages 27 for Bath, 71 for Shower, 87 for Lavatory, and 186 for Closet.



Plate W-73

Hajoca No. 332 "Chester" porcelain enameled bath with 3-inch roll rim, exterior unfinished, with nickel-plated Hajoca No. 10 waste with china lever and compression top nozzle supply fittings thru rim with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim, 30 inches; depth inside, 17 inches; height to top of rim, $22\frac{1}{2}$ inches.

Sizes (nominal) . . .	4 feet	$4\frac{1}{2}$ feet	5 feet	$5\frac{1}{2}$ feet	6 feet
Actual length over rim	$48\frac{1}{4}$ inches	$54\frac{1}{4}$ inches	$60\frac{1}{4}$ inches	$66\frac{1}{4}$ inches	$72\frac{1}{4}$ inches

Bath with supply

and waste fit-

tings as described

\$	\$	\$	\$	\$
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For other styles of waste and supply fittings which can be furnished with this bath, see Plates W-142, W-148, W-149, W-150, W-160, W-161 and W-162.

The exterior of the "Chester" bath is furnished unfinished. If with exterior white finish, add: No. 1, \$; No. 2, \$; for description see page 24.

IN the light of sanitary science, the Hajoca No. 10 bath waste is an indispensable necessity. Its installation will forestall those insanitary dangers always present when the ordinary standpipe bath wastes are used. The situation is thus summed up in a bulletin issued by the Pennsylvania State Commissioner of Health: "The question of insanitary devices for discharging used dirty water from bath tubs is a serious one and bears directly upon our health and should be taken up by the people so that they may understand their objectionable features and that they may urge an act forbidding such insanitary construction." For detailed description see page 3.

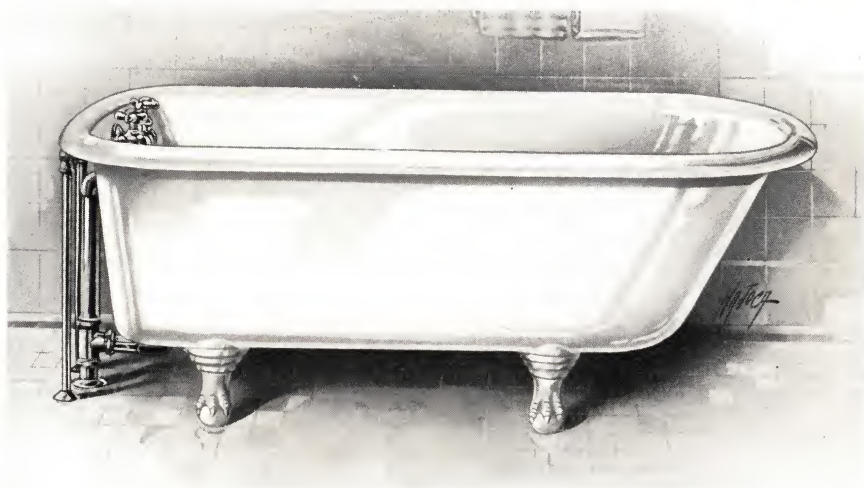


Plate W-74

Hajoca No. 332 "Chester" porcelain enameled bath, with 3-inch roll rim, exterior unfinished, with nickel-plated No. 3 connected waste and overflow with chain and rubber stopper, Hajoca No. 3 compression bath faucet with No. 3-C china index handles, offset ball ell couplings and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Length, see below; width over rim, 30 inches; depth inside, 17 inches; height to top of rim, $22\frac{1}{2}$ inches.

Sizes (nominal) . . .	4 feet	$4\frac{1}{2}$ feet	5 feet	$5\frac{1}{2}$ feet	6 feet
Actual length over rim	$48\frac{1}{4}$ inches	$54\frac{1}{4}$ inches	$60\frac{1}{4}$ inches	$66\frac{1}{4}$ inches	$72\frac{1}{4}$ inches
Bath with supply and waste fittings as described . . .	\$	\$	\$	\$	\$

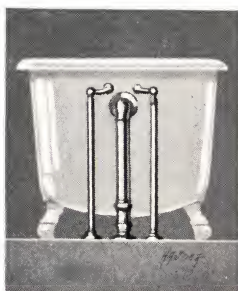


Plate W-75

Plate W-75. Hajoca No. 346 porcelain enameled bath, with $2\frac{1}{4}$ -inch roll rim, exterior unfinished, with waste and supply fittings as described for Plate W-74.

Dimensions—Length, see below; width over rim, 26 inches; depth inside, 17 inches; height to top of rim, $22\frac{1}{2}$ inches.

Sizes (nominal) . . .	4 feet	$4\frac{1}{2}$ feet	5 feet	$5\frac{1}{2}$ feet
Actual length over rim	48 inches	54 inches	60 inches	66 inches
Bath with supply and waste fittings as described . . .	\$	\$	\$	\$

The exteriors of the No. 332 and No. 346 baths are furnished unfinished. If with exterior white finish, add: No. 1, \$; No. 2, \$; for description see page 24.

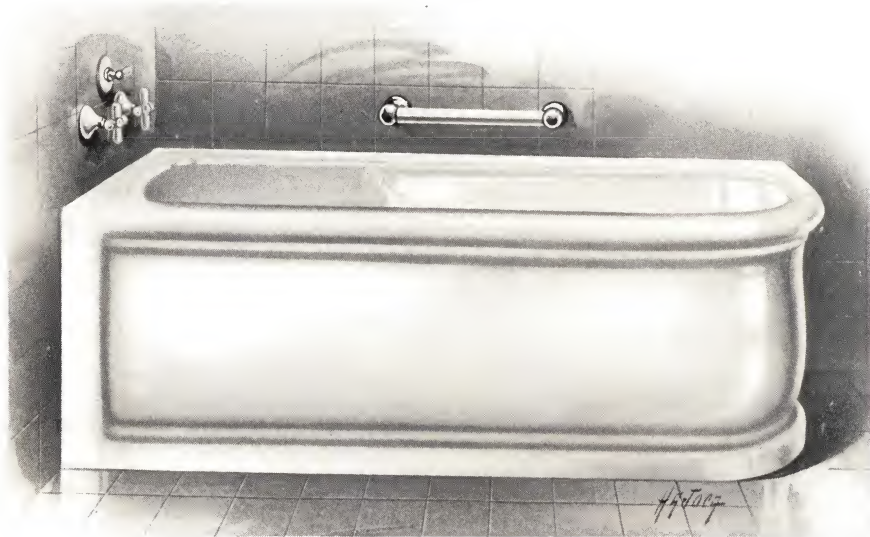


Plate W-100

Hajoca No. 613-6 "Drexelia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—The nominal dimensions of the "Drexelia" baths are: length, 60 inches, 66 inches or 72 inches; width, 32 inches; height, 21 inches; depth inside, 19 inches. Owing to variations caused by shrinkage during firing, these nominal sizes are subject to fluctuations. Actual measurements for the individual pieces to be furnished on any order will be forwarded on request.

Sizes (nominal).....	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described	\$	\$	\$

Plate W-102 (not illustrated). **Hajoca No. 614-6 "Drexelia"** Regal porcelain bath, same as Plate W-100 except with outlet at exposed end and with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and ¾-inch iron pipe weight supply pipes (same as shown in Plate W-114). All exposed parts nickel plated.

Dimensions—Same as Plate W-100. The fixtures shown require an additional space of 5 inches.

Sizes (nominal).....	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described	\$	\$	\$

When ordering specify if for left-hand corner as shown, or for right-hand corner; see diagrams page 2.

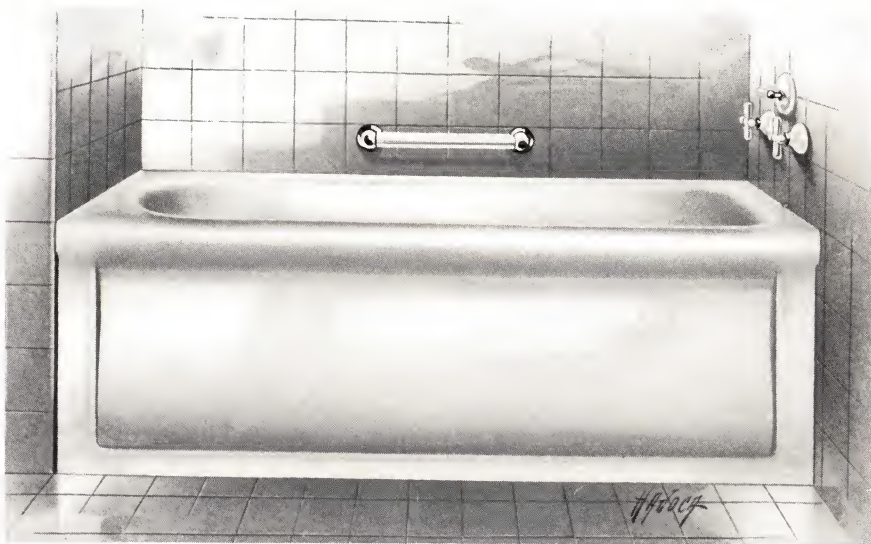


Plate W-104

Hajoca No. 613-7 "Drexelia" Regal porcelain roll rim bath, glazed white inside and out, to tile into recess, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—See Plate W-100.

Sizes (nominal)	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described	\$	\$	\$

Plate W-106 (not illustrated). Hajoca No. 613-7 "Drexelia" Regal porcelain bath, same as Plate W-104, except with Hajoca No. 10 waste and compression supply fittings concealed in end wall with nozzle thru wall over rim, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges (same as Plate W-112), no supply pipes included. All exposed parts nickel plated.

Dimensions—Same as Plate W-100.

Sizes (nominal)	5 feet	5½ feet	6 feet
Bath with supply and waste fittings as described	\$	\$	\$

When ordering specify if fittings are to be at right end as shown or at left end; see also diagrams page 2.

"DREXELIA" baths are made of our heavy weight Regal porcelain. In their massive construction is combined the highest skill of the ceramic artist and potter and where the architect desires to express massiveness and beauty, these baths will be found a fitting medium for such expression.

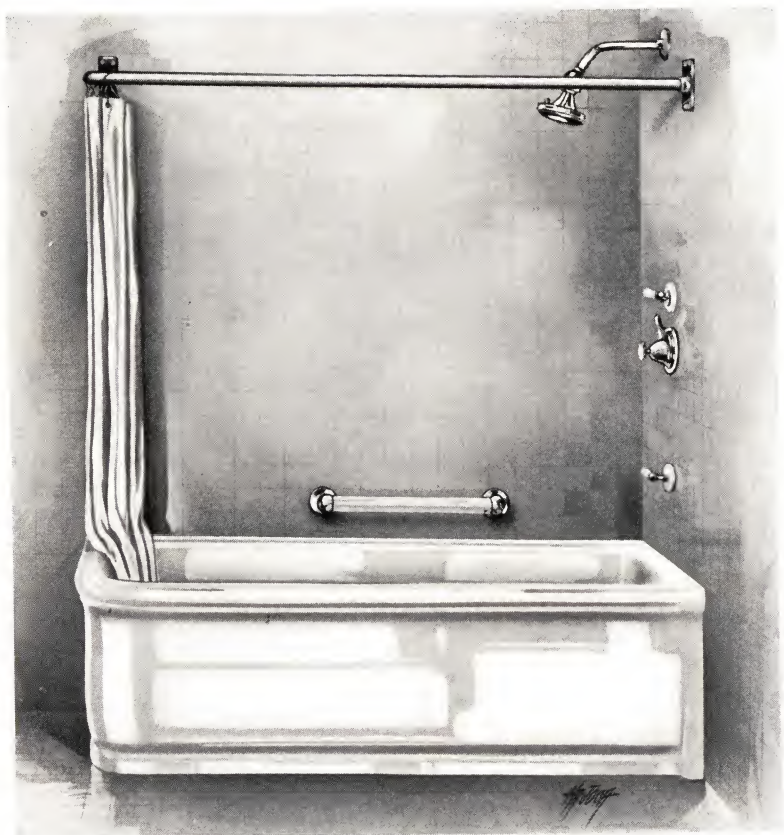


Plate W-108

Hajoca No. 631-6 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at wall end, with Hajoca No. 10 waste, No. 10 Leonard thermostat mixing valve with wall flange and diverting valve concealed in wall at end of bath, with nozzle thru overflow and with china lever handle and china flange on waste and diverting valve; cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and shower pipe to wall with flange; pipes from floor to mixing valve and from diverting valve to shower pipe *not* included. "L" pattern curtain rod with wall flanges, white sateen curtain and fasteners, hook and chain. All exposed parts nickel plated.

Dimensions—See Plate W-114.

Sizes (nominal).....	5 feet	5½ feet
Bath with supply and waste fittings and shower, including curtain, rod, etc., as described.....	\$	\$

When ordering specify if for right-hand corner as shown, or for left-hand corner; see also diagrams page 2.

THE No. 10 thermostat mixing valve is installed on the horizontal in the wall (see Plate W-109) leaving in view only the graduated plate and lever. Where the wall is not deep enough for the mixing valve and connections, the valve can be placed in a vertical position in front of the tile. For description of the Leonard valve see pages 31 and 73.

THE LEONARD THERMOSTAT MIXING VALVE

THE Leonard thermostat mixing valve (see Plate W-400) receives water from the hot and cold supplies, mixes it and delivers at a predetermined temperature.

This is the method of operation:—The bather, let it be assumed, desires water at 90° from the combined flow of circulating hot water at 160° and cold at 60°. By moving the regulating lever to the 90° notch on the graduated scale and opening the hand wheel the water flows at the temperature indicated.

This illustrates the predetermining of temperatures. If a higher or lower temperature is desired later on, the lever is moved to notch designating the required temperature. Thus any temperature from the lowest to the highest indicated on the graduated scale may be obtained by simply moving the lever.

Volume flow can also be controlled by the hand wheel at the top of valve. Control of volume flow does not affect the temperature control.

Should the cold water supply, for any reason, be suddenly reduced or cut off from the supply line and the hot continue to flow, the thermostatic coils would immediately respond to the changed condition, stopping the flow thru the valve entirely as soon as the temperature of the water exceeded that set for it by the lever on the graduated scale. The same likewise would take place if the hot supply was similarly reduced or cut off and the cold only flowed.

The device, therefore, is both anti-scalding and anti-chilling. It will give this safe dependable service whether fully or only partly opened regardless of varying pressure conditions caused by the drawing of hot or cold water into plumbing fixtures in other parts of the building.

The user, whether a child or grown-up, can be absolutely sure of the positive working of this control valve.

This invention is a remarkably valuable addition to Hajoca sanitary fixtures and plumbing devices and is recommended for installations where safety, convenience and the most modern and approved equipment are desired.

The valve employs only a solid metal thermostat control, instantly responsive and applied directly to balanced valves. There are no stuffing boxes, diaphragms, liquids or levers. The thermostat is made of a combination of metals, special alloys and silver, brazed together and forming a solid unit practically indestructible.

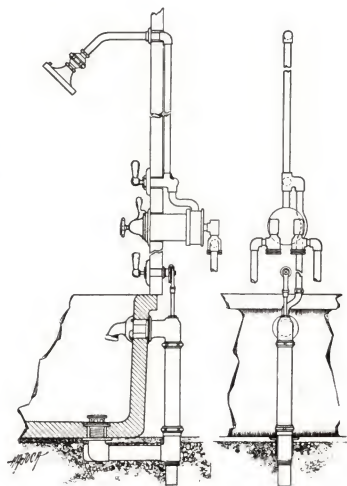


Plate W-109

Showing No. 10 Leonard Valve on horizontal in wall with diverting valve supplying both bath and overhead shower

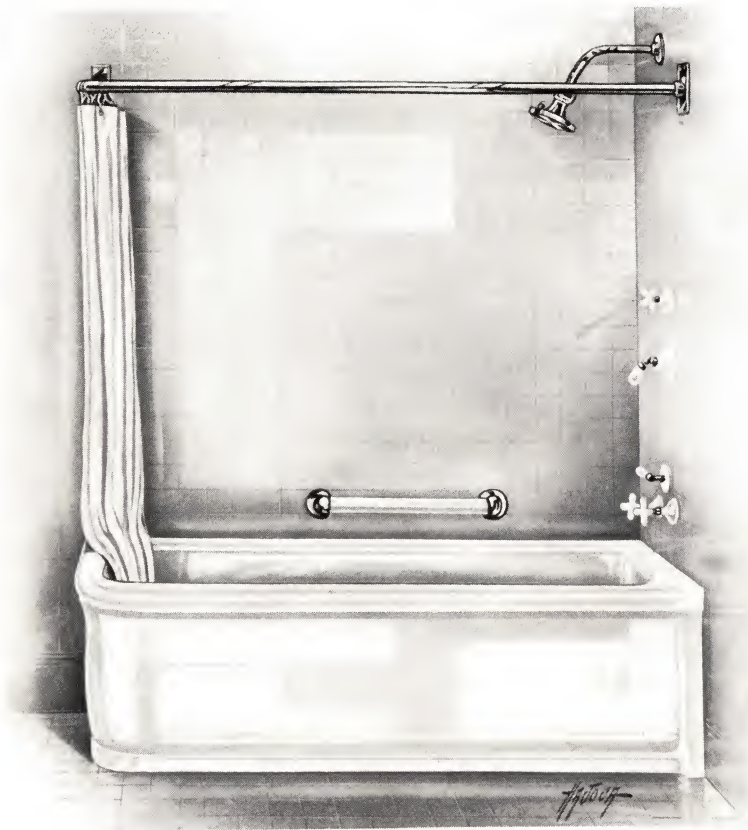


Plate W-110

Hajoca No. 631-6 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings with by-pass for shower concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Hajoca No. 4 shower mixing valve concealed in end wall with china lever handle and wall flange and compression stop with No. 12-C all china index handle and china flange, cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall, no connecting pipes included; "L" pattern curtain rod with wall flanges, white sateen curtain and fasteners, hook and chain. All exposed parts nickel plated.

Dimensions—See Plate W-114.		
Sizes (nominal).....	5 feet	5½ feet
Bath with supply and waste fittings and shower including curtain, rod, etc., as described.....	\$	\$
When ordering specify if for right-hand corner as shown, or for left-hand corner; see also diagrams page 2.		

SPECIAL attention is directed to the Hajoca No. 4 shower mixing valve which controls both hot and cold water with a single lever. The lever enables the bather to draw water tempered to his personal liking. Its quickness and convenience add much to the pleasure of shower bathing. For further description see page 72.

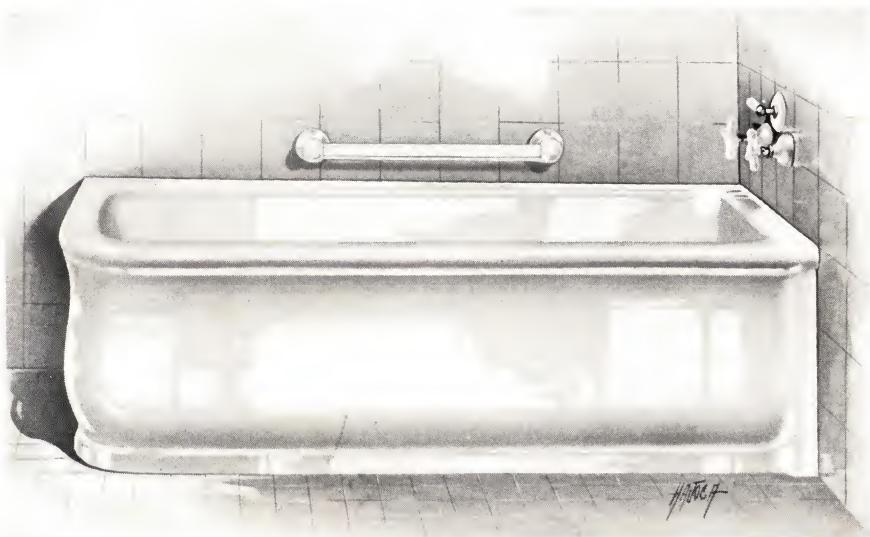


Plate W-111

Hajoca No. 631-6 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—See Plate W-114.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$

Plate W-112. Hajoca No. 631-6 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath with nozzle thru wall over rim, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—See Plate W-114.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$



Plate W-112

When ordering the above baths specify if for right-hand corner as shown, or for left-hand corner; see diagrams page 2.

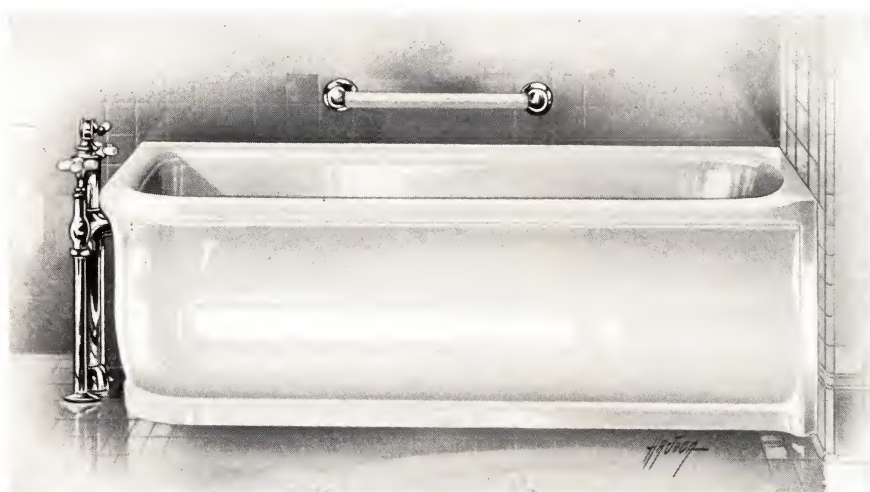


Plate W-114

Hajoca No. 632-6 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into corner, outlet at exposed end, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and $\frac{3}{4}$ -inch iron pipe weight supply pipes.

Dimensions—The nominal dimensions of the "Adelphia" baths are: length, 60 inches or 66 inches; width, 31 inches; height, 19 inches; depth inside, 17 inches. The fixtures shown require an additional space of 5 inches. Owing to variations caused by shrinkage during firing, these nominal sizes are subject to fluctuations of one or more inches. Actual measurements for the individual pieces to be furnished on any order will be forwarded on request.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$

When ordering specify if for right-hand corner as shown or for left-hand corner; see also diagrams page 2.

THO lighter in weight than the "Drexelia" baths, the "Adelphia" Regal porcelain, like the heavier weight designs, is a ceramic product having a solid clay body with its exterior surface highly glazed with an impervious gloss easily cleaned. Both the "Drexelia" and "Adelphia" are made sanitary and impervious by being fused at a high degree of temperature. This intense heat renders absolute uniformity in shape and dimensions impossible and may produce small visible blemishes which, however, in no way affect the sanitary quality of the ware.

The technical skill and resources at the pottery produce an unusually beautiful glaze on our Regal porcelain baths. It is rich and glossy in appearance and by wiping now and then with a damp cloth or sponge is easily kept spotless and inviting.



Plate W-116

Hajoca No. 631-7 "Adelphia" Regal porcelain roll rim bath, glazed white inside and out, to tile into recess, outlet at wall end, with Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Dimensions—See Plate W-114.

Sizes (nominal)	5 feet	5½ feet
Bath with supply and waste fittings as described	\$	\$

When ordering specify if fixtures are to be at right end as shown, or at left end; see also diagrams page 2.

Plate W-120. Nickel-plated Hajoca "L" pattern curtain rod with wall flanges, for corner bath, white sateen curtain and fasteners, hook and chain.

Sizes of corner

bath, feet.	4½	5	5½	6
------------------	----	---	----	---

Rod, curtain, etc.,

as described ...\$	\$	\$	\$
--------------------	----	----	----

Plate W-121 (not illustrated). Nickel-plated Hajoca curtain rod with wall flanges, for recess bath, white sateen curtain and fasteners, hook and chain.

Sizes of recess

bath, feet.	4½	5	5½	6
------------------	----	---	----	---

Rod, curtain, etc.,

as described ...\$	\$	\$	\$
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THE Hajoca curtains for corner and recess tiled-in baths are made of an excellent quality of sateen. They absorb little moisture and hence quickly dry; when soiled, laundering can be easily done. Our curtain rods are substantially made.

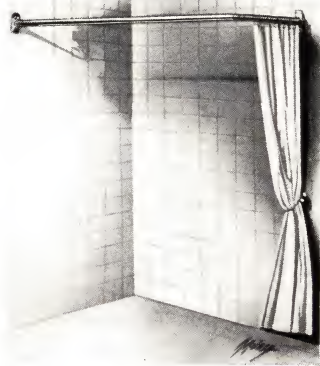


Plate W-120

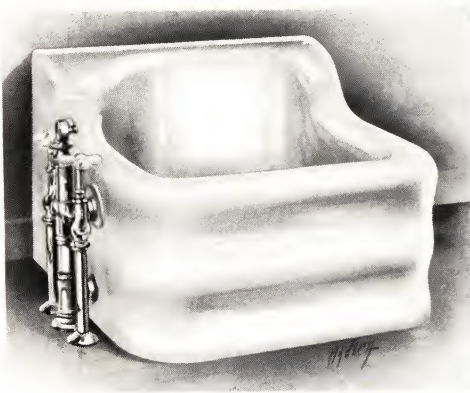


Plate W-130

Plate W-130. Hajoca No. 256-5 "Penn" porcelain enameled sitz bath with porcelain enameled front and ends, to tile into back wall, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings, with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Length over rim, 30 inches; front to back, 31 inches; height to top of rim at back, 21 inches; at front, 15 inches. The measurements given are based on setting the rim $\frac{3}{4}$ inch into the tile at back. The fixtures shown require an additional space of 5 inches.

Bath with supply and waste fittings as described.....\$

A SITZ or "hip" bath has for many years been recognized as adding much to the comfort and convenience of the home bathroom, where it may also frequently serve the purpose of a foot bath.

Plate W-132. Hajoca No. 262-4 porcelain enameled foot bath on base, with 3-inch roll rim and $4\frac{1}{2}$ -inch extension for fittings, exterior unfinished, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings thru rim with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—Length over rim, $23\frac{3}{4}$ inches; width over extension rim, $25\frac{1}{2}$ inches; depth inside, 11 inches; height to top of rim, $15\frac{1}{4}$ inches.

Bath with supply and waste fittings as described.....\$

The exterior of the No. 262-4 bath is furnished unfinished. If with exterior white finish, add: No. 1, \$; No. 2, \$; for description see page 24.

THE designs of Hajoca porcelain enameled sitz and foot baths harmonize with our porcelain enameled bath tubs. Being small and low, they fill quickly, require but little hot water and are much more convenient for the purpose than a regular bath tub.



Plate W-132

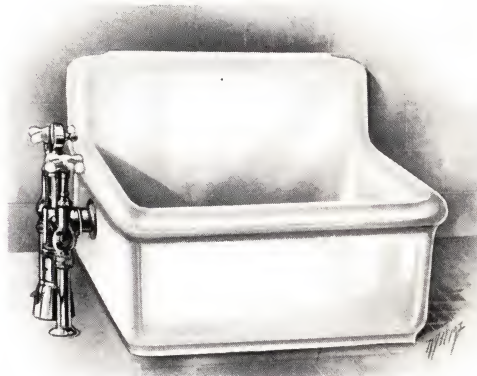


Plate W-134

Plate W-134. Hajoca No. 656-5 "Adelphia" Regal porcelain roll rim sitz bath, glazed white inside and out, to tile into back wall, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Dimensions—The nominal dimensions of the "Adelphia" sitz bath are: length over rim, 25 inches; front to back, 26 inches; height to top of rim at back, 18 inches; at

front, 12 inches. The fixtures shown require an additional space of 5 inches.

Owing to variations caused by shrinkage during firing, these nominal sizes are subject to fluctuations. Actual measurements for the individual pieces to be furnished on any order will be forwarded upon request.

Bath with supply and waste fittings as described \$

Plate W-136. Hajoca No. 664-4 Regal porcelain roll rim foot bath on base, glazed white inside and out, with nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings, with No. 12-C all china index handles and $\frac{1}{2}$ -inch iron pipe weight supply pipes.

Bath with supply and waste fittings as described \$

HAJOCA Regal porcelain sitz and foot baths harmonize with Regal porcelain bath tubs. They are made of a ceramic product, having a solid clay body with exterior surfaces highly glazed with an impervious gloss. This ware is made sanitary by being fused at a high degree of heat. This intense heat renders absolute uniformity in shape and dimensions impossible and may produce small visible blemishes which, however, in no way affect the sanitary quality of the ware.

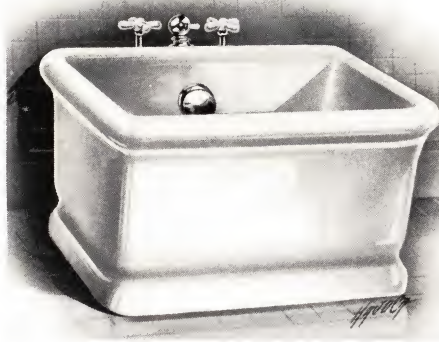


Plate W-136

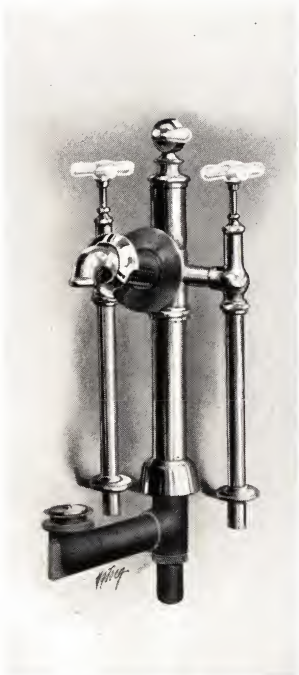


Plate W-138

Plate W-139. Nickel-plated Hajoca No. 10 waste with china lever and compression top nozzle supply fittings thru rim, with rim flanges, No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

For No. 236-5 or No. 236-6 legless bath.....\$

For No. 332 or No. 332-4 baths on legs or base, \$

If with 3/4-inch in place of 1/2-inch supply pipes,
add.....\$

For nozzle fitted with coupling for shampoo hose on either of the above, add.....\$

THE Hajoca No. 10 waste holds the bath water at the bath outlet, preventing contact with concealed waste pipes. It insures a bath in water as pure and clean as the spotless interior of the fixture itself. It is a positive safeguard against sediment from previous bathers backing up into the bath.

Plate W-138. Nickel-plated Hajoca No. 10 waste with china lever and compression supply fittings with nozzle thru overflow and No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

For Nos. 204-5, 204-6 or No. 206-6 baths.....\$

If with 3/4-inch in place of 1/2-inch supply pipes,
add.....\$

For No. 614-6 or No. 632-6 baths, including
3/4-inch supply pipes.....\$

Plates W-138 and W-139 are regularly furnished with 1 1/2-inch O. D. tail pieces for lead pipe; in addition, the waste tee is threaded 1 1/2-inch iron pipe outside thread, so that an iron pipe connection can be made.

For shallow floors a special elbow, Plate W-145, with 1 1/2-inch iron pipe inside thread by 1 1/2-inch I. D. fine inside thread can be furnished when specially ordered. The elbow should be connected to the waste tee.



Plate W-139



Plate 140

Plate W-141. Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru wall over rim, china lever handle on waste and No. 12-C all china index handles on supply valves, china flanges and iron wall plate, no supply pipes included. All exposed parts nickel plated.

For porcelain enameled baths..... \$

For Regal porcelain baths..... \$

If Plates W-140 and W-141 are fitted with supply valves having by-pass for shower, add. \$

For nozzle fitted with coupling for shampoo hose on either of the above, add..... \$

THE Hajoca No. 10 waste has a cage stopper operated by a brass rod in a single tube overflow and connected to a china lever on the tiled wall. The overflow is large and connects direct to the bath without passing thru an inner concealed tube; it has ample capacity to carry off the normal surplus overflow of hot and cold water.

Plate W-140. Hajoca No. 10 waste and compression supply fittings concealed in wall at end of bath, with nozzle thru overflow, china lever handle on waste and No. 12-C all china index handles on supply valves, china flanges and iron wall plate, no supply pipes included. All exposed parts nickel plated.

For porcelain enameled baths..... \$

For Regal porcelain baths..... \$

Plate W-140 can also be furnished with the supply fittings and waste lever in the rear wall directly back of the waste outlet in the bath instead of in the end wall; the nozzle enters the bath thru the overflow at end (compare Plates W-23 and W-53).

Price..... \$

Plates W-140 and W-141 are regularly furnished with 1½-inch O. D. tail pieces for lead pipe; in addition the waste tee is threaded 1½-inch iron pipe outside thread, so that an iron pipe connection can be made.

For shallow floors a special elbow, Plate W-145, with 1½-inch iron pipe inside thread by 1½-inch I. D. fine inside thread can be furnished when specially ordered. The elbow should be connected to the waste tee.

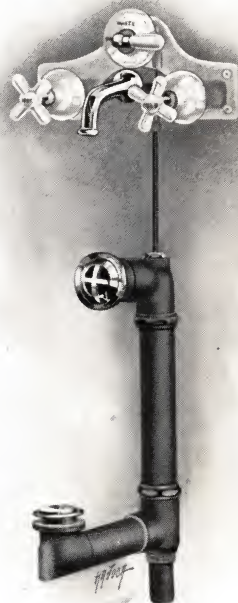


Plate 141

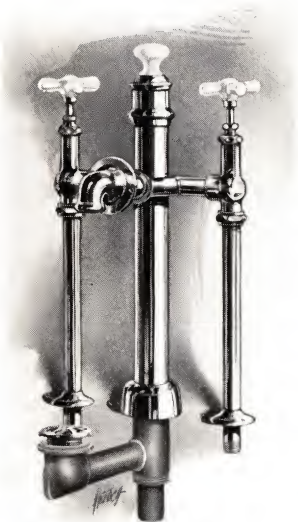


Plate W-142

Plate W-142. Nickel-plated Hajoca No. 20 waste with china knob and compression top nozzle supply fittings with No. 12-C all china index handles and 1/2-inch iron pipe weight supply pipes.

- For Nos. 204-5, 204-6 or No. 206-6 baths.....\$
- For No. 236-5 or No. 236-6 legless baths.....\$
- For No. 332 or No. 332-4 baths on legs or base..\$
- If with 3/4-inch in place of 1/2-inch supply pipes, add.....\$
- For No. 614-6 or No. 632-6 baths, including 3/4-inch supply pipes.....\$

Plates W-142 and W-143 are regularly furnished with 1 1/2-inch O. D. tail pieces for lead pipe; in addition the waste tee is threaded 1 1/2-inch iron pipe outside thread, so that an iron pipe connection can be made.

For shallow floors a special elbow, Plate W-145, with 1 1/2-inch iron pipe inside thread by 1 1/2-inch I. D. fine inside thread can be furnished when specially ordered. The elbow should be connected to the waste tee.

Plate W-143. Hajoca No. 20 waste and compression supply fittings concealed in wall at end of bath with nozzle thru end, china lever handle on waste and No. 12-C all china index handles on supply valves, china flanges and iron wall plate, no supply pipes included. All exposed parts nickel plated.

- For porcelain enameled baths.....\$
- For Regal porcelain baths.....\$
- If fitted with valves having by-pass for shower, add.....\$

For nozzle fitted with coupling for shampoo hose on either of the above, add..\$

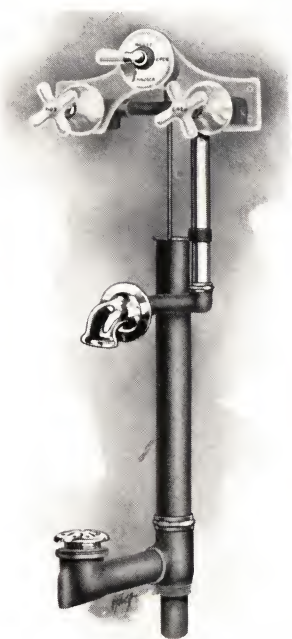


Plate W-143

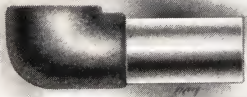


Plate W-145

Plate W-143 can also be furnished with the supply fittings and waste lever in any desired position along the rear wall instead of in the end wall. The nozzle enters the bath at the end, each..\$

Plate W-145. Hajoca cast brass elbow, 1 1/2-inch iron pipe inside thread by 1 1/2-inch inside diameter fine inside thread.....\$



Plate W-146

with nozzle thru wall over rim, No. 12-C all china index handles on supply valves and china flanges, no supply pipes included. All exposed parts nickel plated.

Price.....\$

Hajoca No. 8 connected waste and overflow with chain and rubber stopper, for porcelain enameled legless baths.

For wall end; exposed parts nickel plated. \$

For exposed end, all parts nickel plated, with deep floor flange. \$

If Plates W-146 and W-147 are fitted with supply valves having by-pass for shower, add. \$

For nozzle fitted with coupling for shampoo hose on either of the above, add. \$

IN the design of Hajoca bath supply and waste fittings every detail has been worked out with minute care to make the fittings extremely practical and easy to install. They are readily adjustable to any slight deviations in the floor or wall and their use will insure a fine finished appearance and freedom from installation troubles.

Plate W-146. Hajoca No. 20 waste and compression supply fittings concealed in wall at end of bath with nozzle thru wall over rim, china lever handle on waste and No. 12-C all china index handles on supply valves, china flanges and iron wall plate, no supply pipes included. All exposed parts nickel plated.

For porcelain enameled baths.....\$

For Regal porcelain baths.....\$

Plates W-146 and W-147 are regularly furnished with 1½-inch O. D. tail pieces for lead pipe; in addition the waste tee is threaded 1½-inch iron pipe outside thread, so that an iron pipe connection can be made.

For shallow floors a special elbow, Plate W-145, with 1½-inch iron pipe inside thread by 1½-inch I. D. fine inside thread can be furnished when specially ordered. The elbow should be connected to the waste tee.

SHOULD rewashing of valves become necessary, the working parts of Hajoca bath fittings installed in the wall can be taken out from the front without disturbing any connection or tile work.

Plate W-147. Hajoca compression supply fittings concealed in wall at end of bath



Plate W -147

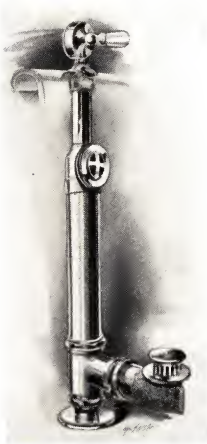


Plate W-148

Plate W-148. Nickel-plated Hajoca No. 10 bath waste and overflow with china lever and rim flange and cast brass floor flange, for porcelain enameled baths.

For No. 332 or No. 332-4
baths.....\$

For No. 236-5 or No. 236-6
baths.....\$

For description of the Hajoca No. 10 waste, see page 3.



Plate W-149

Plate W-149. Nickel-plated Hajoca No. 20 bath waste and overflow, with china knob handle, for porcelain enameled baths.

For No. 332 or No. 332-4
baths.....\$

For No. 236-5 or No. 236-6 baths.....\$

The standpipe of the Hajoca No. 20 waste can be removed for cleaning.



Plate W-150

Plate W-150. Nickel-plated Hajoca connected waste and overflow, with chain and rubber stopper, for porcelain enameled baths on feet.

No. 3, standard.....\$

No. 6, with No. 17 gauge
tubing.....\$

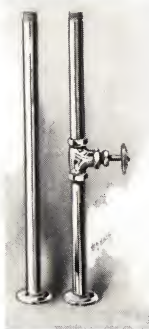


Plate W-151 Plate W-152

Plate W-151. Nickel-plated bath supply pipe, with flange.

1/2-inch I. P., per pair.....\$

3/4-inch I. P., per pair.....\$

1/2-inch No. 12 gauge, per
pair.....\$

Plate W-152. Nickel-plated bath supply pipe, with wheel handle stop and flange.

1/2-inch I. P., per pair.....\$

3/4-inch I. P., per pair.....\$

THE USE OF STOPS

Modern plumbing experts recommend the use of a stop on each supply pipe to control the volume of flow as well as for convenience when rewashing. This practice is equally desirable with exposed supply pipes, as well as those concealed in the wall. In the section on Plumbers' Brass Work will be found stops suitable for all requirements.

Plate W-160. Hajoca No. 3 nickel-plated compression bath faucet, $3\frac{3}{8}$ inches center to center, with No. 3-C china index handles and offset ball ell couplings for $\frac{1}{2}$ -inch iron pipe, for porcelain enameled baths, each.....\$

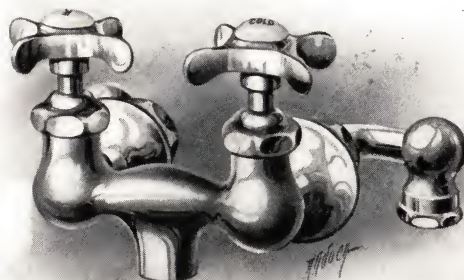


Plate W-160



Plate W-161

Plate W-162. Hajoca No. 43 nickel-plated Quick bath faucet, $3\frac{3}{8}$ inches center to center, with china lever handles marked "H" and "C" and offset ball ell couplings for $\frac{1}{2}$ -inch I. P., for porcelain enameled baths, each..\$



Plate W-162

Hajoca bath faucets enjoy a high reputation for lasting quality and satisfactory service. They are made from a selected mixture of red metal with well packed high caps and housed seat washers, and with every mechanical feature carefully perfected.

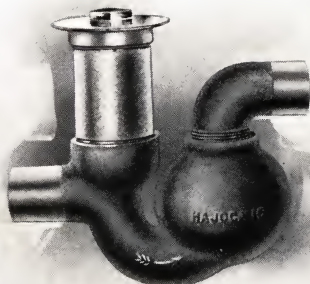


Plate W-170

Plate W-170. Hajoca No. 10 brass non-syphoning bath trap, with 2-inch cleanout, nickel-plated cover and adjustable outlet.

1½-inch, for lead pipe, each.....\$
Same, for 1½-inch iron pipe, inside threads, each.....\$
2-inch, for lead pipe, each.....\$

THE globe holds a large volume of water, and is so constructed that the seal cannot be broken by syphonage. The cleanout is on the "house side" of the seal. The screw joints in the body of the trap are protected by the water seal.

The adjustable outlet permits the plumber to run his waste pipe in any direction and often avoiding the necessity of cutting joists. The 2-inch size cannot be installed where the joists are less than 10 inches.

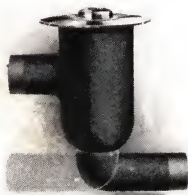


Plate W-172

Plate W-172. Hajoca No. 18 brass bath trap with nickel-plated cover and adjustable inlet.
1½-inch, each.....\$

The No. 18 trap is adjustable to any horizontal position, and is easy to install.



Plate W-174

Plate W-174. Hajoca No. 43 brass bath trap with nickel-plated cover and adjustable inlet.

1¼-inch, each.....\$

Plate W-175. Hajoca No. 26 brass bath trap with nickel-plated cover and adjustable inlet.
1½-inch, each.....\$

THE Hajoca No. 26 is one of our most popular bath traps, as it combines all the desirable features required for the average installation.

When furnished in connection with legless bath tubs, a 1-inch or larger extension piece should always be used to insure sufficient fall between the bath waste and the trap outlet (see Plate W-43).

THE above bath traps have inlets adjustable to any horizontal direction, and are therefore easy to install. Plates W-174 and W-175 have the seal on the "house side" and comply with the regulations of the Board of Health in Philadelphia and other cities requiring this feature.

Plate W-176 (not illustrated). Brass extension piece for No. 18, No. 26 and No. 43 brass bath traps.

Lengths, inches.....	1/2, 3/4 or 1	1 1/4 or 1 1/2
Each.....	\$	\$

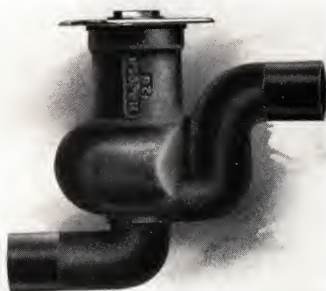


Plate W-175

HAJOCA SHOWER BATHS

FOR supreme cleanliness the shower bath appeals to the common sense of everyone. Each drop of water touching the bather is fresh and clean. Cleansing begins the moment the water flows and gets its crowning touch at the end. There is no waiting at the beginning of the bath for the tub to fill nor is there soaking in soapy and soiled water at its completion.

Its physiological effects are now recognized and highly valued by both physician and layman, and so popular is this form of bathing that the refreshing and tonic effects of the shower bath have become proverbial. No modern residential bath room is now regarded as complete unless it is equipped with a shower as well as a bath tub.

Industry has likewise been quick to furnish the benefits of shower bathing for its workers; and in modern factory construction provisions are now quite generally made for batteries of showers, so that the workers may thoroly clean up and renew their vigor at the end of the day's work.

In the education of the American youth in both school and college, as well as in institutional life, the shower bath is considered indispensable and the modern club and hotel take foremost pride in their shower bath facilities.

In preparing our shower bath illustrations, these demands have been carefully provided for and the following pages show how Hajoca showers are built for the work they must do in private home, club, school, mill or factory.

The constant use of the following pages will further increase the popularity and sales of Hajoca showers.

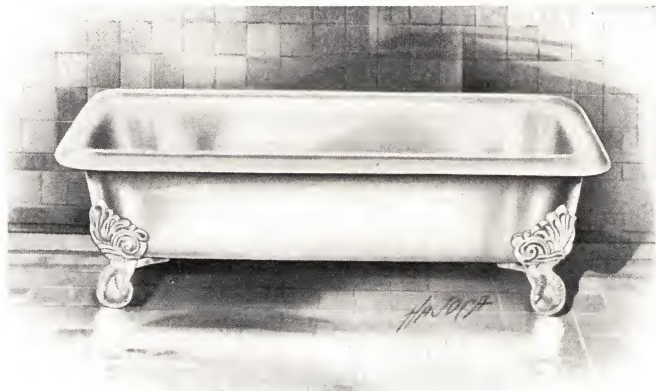


Plate W-300

Hajoca No. 281 square porcelain enameled roll rim shower receptor, with nickel-plated waste strainer.

36 x 36 inches over all, each.....\$
 42 x 42 inches over all, each.....\$

If with exterior white finish, add: No. 1, \$; No. 2, \$. For description see page 24.

Plate W-301 (not illustrated). **Hajoca No. 281-4** square porcelain enameled roll rim shower receptor on base, with nickel-plated waste strainer.

36 x 36 inches over all, each.....\$
 42 x 42 inches over all, each.....\$

If with exterior white finish, add: No. 1, \$; No. 2, \$. For description see page 24.



Plate W-303

Hajoca No. 286-7 square porcelain enameled shower receptor, for marble or slate stalls, with nickel-plated waste strainer and iron trap body.

36 x 36 inches, each.....\$
 42 x 42 inches, each.....\$

THE No. 286-7 receptor can be furnished for single stall or any number of stalls when set in sections. It is arranged to be set into the floor, the top being flush with the floor. When ordered in batteries, always state number, so that proper sections may be furnished.



Plate W-306

Hajoca No. 682-5 Regal porcelain roll rim shower receptor on base for marble or slate stall, with nickel-plated waste strainer with removable grate.

36 x 36 inches, each\$
 42 x 42 inches, each\$

Attention is directed to the groove into which the three side slabs and the two return pieces fit. This insures water tightness. This receptor can also be tiled into a corner or a recess.



Plate W-308

Hajoca No. 683-7 Regal porcelain roll rim shower receptor on base to tile into recess with offsets at front for tile jambs, with nickel-plated waste strainer with removable grate.

Approximate dimensions—Width, 39 inches; depth, 40 inches.
 Each\$

THIS style of receptor is regularly furnished for tile enclosures with glass doors or curtains. The inside at the front is designed to deflect into the receptor all water draining from the door or curtain and so prevent any splash from striking outside the enclosure.

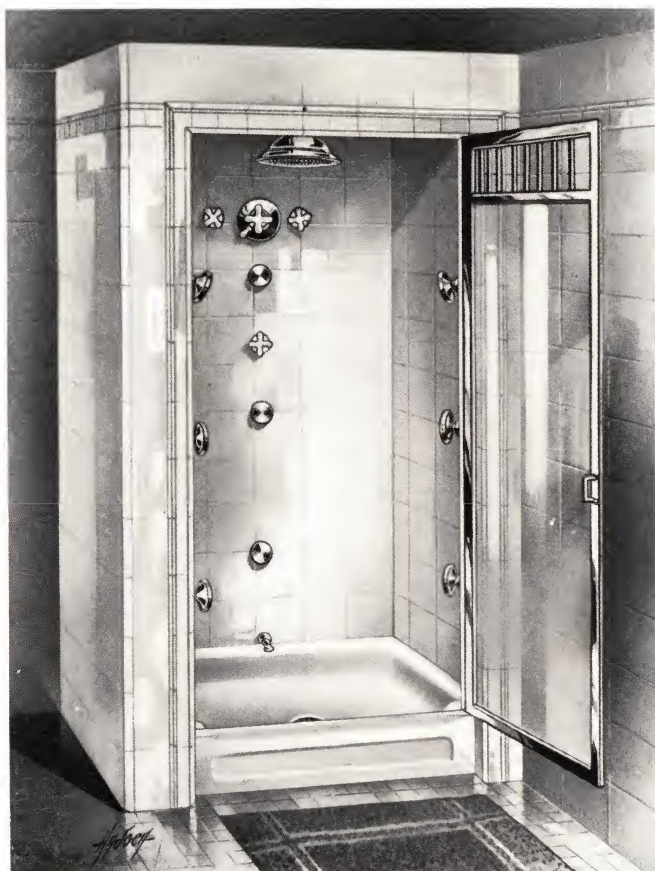


Plate W-320

Hajoca No. 73-20 "Aquatonic" nickel-plated shower and rose spray needle bath, with tubular shower head with air inlet valve and arm to wall, nine cast brass rose sprays with removable faces, the three top ones having adjustable ball joints, control valves for test nozzle, shower and rose sprays with No. 12-C all china index handles and china flanges, No. 20 Leonard thermostat mixing valve concealed in wall with wall flange, No. 12-C all china handle and check valves and removable strainer screens; with Hajoca No. 683-7 Regal porcelain roll rim shower receptor on base to tile into recess with offsets at front for tile jambs, with nickel-plated waste strainer with removable grate; plate glass door with nickel-plated frame, ventilating top, latch and handle.

Dimensions of receptor—Width, 39 inches; front to back, 40 inches. Dimensions of door—Width, 25 $\frac{7}{8}$ inches; height, 6 feet 6 inches.

As described, with receptor and door, but not including tile. \$

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch, and the water pressure at the fixture at least forty pounds. For lower pressures, a valve of larger capacity is required.

For descriptions and illustrations of the Leonard thermostat mixing valve, see pages 31 and 73.



Plate W-322

Hajoca No. 51-20 "Hydrothermic" nickel-plated shower and circular needle bath, with tubular shower head with air inlet valve, No. 20 Leonard thermostat mixing valve with check valves and removable strainer screens, control valves with No. 3-C china index handles for needle and shower and supply connections to wall; with Hajoca No. 683-7 Regal porcelain roll rim shower receptor on base to tile in recess with offsets at front for tile jambs, with nickel-plated waste strainer with removable grate; and with plate-glass door with nickel-plated frame, ventilating top, latch and handle.

Dimensions—Same as Plate W-320.

As described, with receptor and door, but not including tile. \$

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch, and the water pressure at the fixture at least 40 pounds. For lower pressures a valve of larger capacity is required.

THIS fixture illustrates an excellent type of shower enclosure. The plate-glass door is superior in every way to the ordinary shower curtain; it admits plenty of light and prevents splashing of the floor, and the ventilating opening in the top provides for circulation of air and escape of the vapor which accumulates during a hot bath. For description of the Leonard thermostat mixing valve, see pages 31 and 73. Where the enclosure is open at the top the ventilating grill can be omitted.



Plate W-324

Hajoca No. 55-4 nickel-plated shower and circular needle bath with spinal spray, tubular shower head with air inlet valve, No. 4 shower mixing valve with china lever handle and control valves with No. 3-C china index handles inside stall near entrance and supply connections to wall.

Shower and needle bath as described, not including curtain rod, curtain or stall. . \$

Add for nickel-plated curtain rod, with flanges, white duck curtain and fasteners. \$

Add for shower stall of $\frac{7}{8}$ -inch polished Italian marble 6 feet 6 inches high, 3 feet 2 inches square inside, with 6-inch return pieces, riser, sills and tread and $1\frac{1}{2}$ -inch thick countersunk floor, nickel-plated clamps and waste strainer with removable grate, not including setting up. \$

Shower stalls can be furnished of any desired size, also of other kinds of marble or of slate and with $1\frac{1}{4}$ -inch sides; also with glass door instead of curtain; prices on application. To prevent errors, a sketch with measurements should be submitted.

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch and the water pressure at the fixture at least 20 pounds.

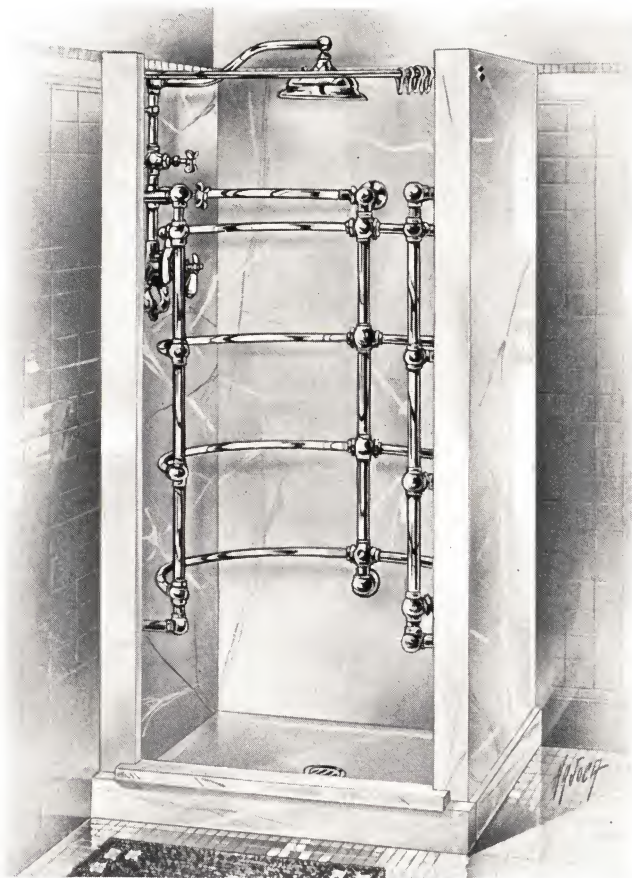


Plate W-325

Hajoca No. 51-4 nickel-plated shower and circular needle bath, with tubular shower head with air inlet valve, No. 4 shower mixing valve with china lever handle and control valves with No. 3-C china index handles inside stall near entrance and supply connections to wall.

Shower and needle bath as described, not including curtain rod, curtain or stall . . \$
Add for nickel-plated curtain rod, with flanges, white duck curtain and fasteners . \$

Shower stall of marble or slate can be furnished of any desired size. (Compare Plate W-324.) Prices on application. To prevent errors a sketch with detailed measurements should always be submitted.

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch, and the water pressure at the fixture at least 20 pounds. When ordering, give exact inside size of stall to which the bath is to be fitted.

For description of the No. 4 shower mixing valve, see page 72.

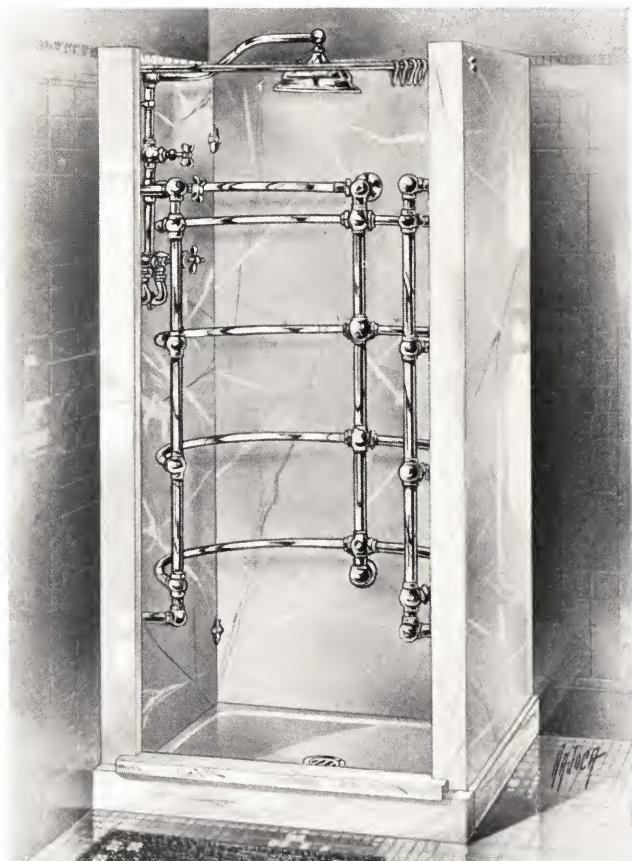


Plate W-326

Hajoca No. 51 nickel-plated shower and circular needle bath, with tubular shower head with air inlet valve, double compression shower mixing valve and control valves with No. 3-C china index handles inside stall near entrance and supply connections to wall.

Shower and needle bath as described, not including curtain rod, curtain or stall. \$
Add for nickel-plated curtain rod with flanges, white duck curtain and fasteners. \$

For information about shower stall, see Plate W-324.

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch and the water pressure at the fixture at least 20 pounds.

EXACTING care is taken in the making of Hajoca shower and needle baths and only superior heavy tubing and the highest quality red metal castings are used in their construction. Our showers have long been known for their extreme durability and excellent service features. Each shower is set up completely and carefully adjusted before shipment. This insures a successful installation when the fixture is placed and connected in its permanent stall.



Plate W-328

Hajoca No. 82-4 nickel-plated shower and double horseshoe needle bath, with tubular shower head with air inlet valve, No. 4 shower mixing valve with china lever handle and control valves with No. 3-C china index handles inside of stall near entrance and supply connections to wall.

Shower and needle bath as described, not including curtain rod, curtain or stall. \$

Plate W-329 (not illustrated). Hajoca No. 82 shower and needle bath as above, except with Hajoca double compression shower mixing valve and control valves with No. 3-C china index handles, not including curtain rod, curtain or stall. \$

Add for nickel-plated curtain rod with flanges, white duck curtain and fasteners. \$

For information about shower stall, see Plate W-324.

To secure satisfactory results, the supply pipes to this needle bath should be 1-inch and the water pressure at the fixture at least 20 pounds.

HAJOCA needle and shower baths can be equipped with either tubular shower heads, as shown, or with rain shower heads. The water flows from the tubular head in a series of small streams about $\frac{1}{16}$ -inch in diameter, while the rain head delivers a fine spray.



Plate W-330

Hajoca No. 4 shower mixing valve concealed in wall, with china lever handle and wall flange and compression stop with No. 12-C all china index handle and china flange, tubular shower head with air inlet valve and pipe to ceiling (no connecting pipes included), all exposed parts nickel plated; with Hajoca No. 683-7 Regal porcelain roll rim shower receptor on base to tile into recess with offsets at front for tile jambs, with nickel-plated waste strainer with removable grate; plate-glass door with nickel-plated frame, ventilating top, latch, and handle.

Dimensions of Receptor—Width, 39 inches; front to back, 40 inches.

Dimensions of Door—Width, $25\frac{7}{8}$ inches; height, 6 feet 6 inches.

As described, with receptor and door but not including tile.....\$

THIS is an excellent type of shower enclosure. The plate-glass door is of superior construction; it admits plenty of light and prevents splashing of the floor, and the ventilating opening in the top provides for circulation of air and escape of the vapor which accumulates during a hot bath. The door can be hinged at either right or left side.



Plate W-332

Hajoca No. 166-4 "Double-header" shower, with No. 4 shower mixing valve with china lever handle and wall flange, two compression control valves for shower heads with No. 12-C all china index handles and china flanges, tubular shower head with air inlet valve and pipe to ceiling and cast brass rain shower head with adjustable ball joint and flange for side wall (no connecting pipes included). All exposed parts nickel plated. As described, not including curtain rod, curtain or stall. \$

Add for nickel-plated curtain rod with flanges, white duck curtain and fasteners. \$

For information about shower stall, see Plate W-324.

WITH the "Double-header" shower the bather can take a bath with or without wetting the head. There are two shower heads, one shoulder high, the other directly from above, independently controlled by separate valves. This bath is well suited for the home. The overhead shower permits drenching the body from head to foot and is popular with men; whereas the shoulder high shower appeals to women, enabling them to enjoy all the benefits of shower bathing without the inconvenience of wetting the hair.



Plate W-334

Hajoca No. 162-4 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, and No. 4 shower mixing valve with china lever handle.

Shower as described, not including curtain rod, curtain or stall. \$

Plate W-335 (not illustrated). **Hajoca No. 152-4** shower as above, except with shampoo attachment with control valves, rubber-bound sprinkler and rubber tubing. \$

Add for nickel-plated curtain rod with flanges, white duck curtain and fasteners. \$

For information about shower stall, see Plate W-324.

Hajoca shower stalls are regularly furnished with a tread and sills. The tread is wide enough to furnish comfortable support for the foot; the sills are designed so that a lead pan can be placed under the floor slab and between the sides and the sills. With shower stalls we recommend the use of such a lead pan with a pipe leading to a tell-tale in the basement. The pan catches any seepage draining thru the joints and thus prevents damage to the ceiling underneath.



Plate W-336

Hajoca No. 84-4 nickel-plated shower and single horseshoe needle bath, with tubular shower head with air inlet valve, No. 4 shower mixing valve with chain lever handle, supply connections to wall, and control valves with No. 3-C china index handles.

Shower and needle bath as described \$ 77.

To secure satisfactory results, the supply pipes to the above bath should be $\frac{3}{4}$ -inch and the water pressure at the fixture at least 20 pounds.

THE single horseshoe needle bath is simple in construction, efficient and moderate in price. It is adapted for use over tiled-in baths with curtains or in shower stalls, etc. A satisfactory arrangement is to place it on the end wall of a tiled-in bath with curtain so that the needle spray cannot splash out into the room. This shower is an excellent design for use with the following baths: Plates W-22, W-38, W-42, W-52, W-63, W-100, W-104 and W-116.



Plate W-338

Hajoca No. 121-4 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, tubular shower head with air inlet valve, No. 4 shower mixing valve with china lever handle and compression stop with No. 3-C china index handle and 24-inch round curtain ring with white duck curtain, hook and chain.

As described.....\$ 50



Plate W-340

Hajoca No. 121 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, tubular shower head with air inlet valve, double compression shower mixing valve with No. 3-C china index handles and 24-inch round curtain ring with white duck curtain, hook and chain.

As described.....\$ 35.70

Hajoca showers are well made; heavy brass tubing and the best grade of red brass castings are used in their construction; the nickel plating is of a superior long wearing quality. The mixing valves possess the stamina to stand the severest service requirements.

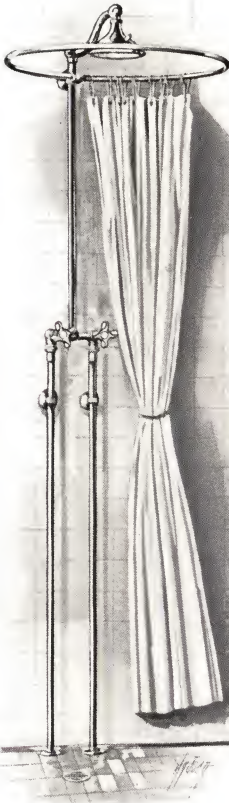


Plate W-342

Hajoca No. 121 nickel-plated shower with $\frac{1}{2}$ -inch iron pipe weight supply pipes to floor, tubular shower head with air inlet valve, double compression shower mixing valve with No. 3-C china index handles and 24-inch round curtain ring with white duck curtain, hook and chain.

As described.....\$38.25

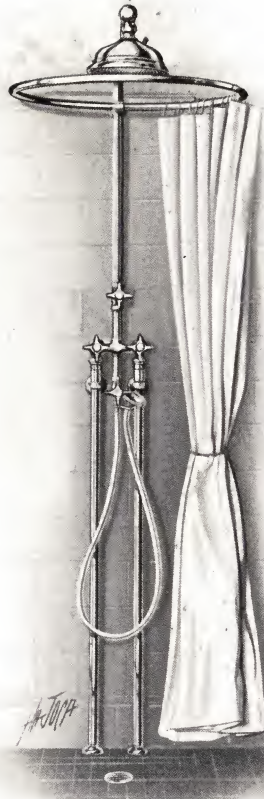


Plate W-343

Hajoca No. 111 nickel-plated shower and shampoo with $\frac{1}{2}$ -inch iron pipe weight supply pipes to floor, tubular shower head with air inlet valve, rubber-bound sprinkler with rubber tubing and wall hook, double compression shower mixing valve and control valves with No. 3-C china index handles and 24-inch round curtain rod with white duck curtain, hook and chain.

As described.....\$47.25

THE fixtures shown above are efficient, simple in construction and moderate in price.



Plate W-344

Hajoca No. 4 shower mixing valve concealed in wall with china lever handle and wall flange and compression stop with No. 12-C all china index handle and china flange, cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall; no connecting pipes included. All exposed parts nickel plated.

As described.....\$33.75



Plate W-346

Hajoca double compression shower mixing valve concealed in wall with No. 12-C all china index handles and china flanges, cast brass rain shower head with removable face, air inlet valve, adjustable ball joint and pipe to wall; no connecting pipes included. All exposed parts nickel plated.

As described.....\$14.00

SHOWERS W-344 and W-346 are frequently installed with tiled-in baths and for such work we furnish bath fittings with by-pass for showers so that the supply pipes for the bath tub are also utilized for the shower as shown in Plate W-32. All of our concealed shower fittings are made so that the working parts can be removed for rewashing without disturbing the wall.

PEOPLE are coming to realize more and more the superior advantages of shower bathing. The reasons for this are evident upon a moment's reflection.

It is the method of bathing contributing markedly to the physical enjoyment and pleasure of the bather and producing healthy upbuilding body reactions.

Every drop of water touching the skin is clean, pure and invigorating. It gathers up the surface wastes and excretions, carries them off and is gone. There is no soaking in soapy waste water; there is no contact with used water for a moment.

The gentle tingling streams tone up the circulation and enliven and refresh the whole being whether the bath is taken at home upon rising in the morning, at the club after physical exertion or games in the afternoon, or at the factory at the end of a day's work.

Hajoca shower baths have long enjoyed a reputation for extreme durability, practical designs and service characteristic of our high-grade brass work.

From the various styles shown in this catalog, it will be comparatively easy to select the shower suited for any installation.

IN public installations such as Schools, Colleges, Club Houses, Factories, etc., it is desirable to equip shower mixing valves with loose key stops, thus permanently regulating any excess volume or pressure. Such stops are illustrated on Plate W-393 and provide means to cut off any individual shower in a battery without interrupting the service of other fixtures on the line.

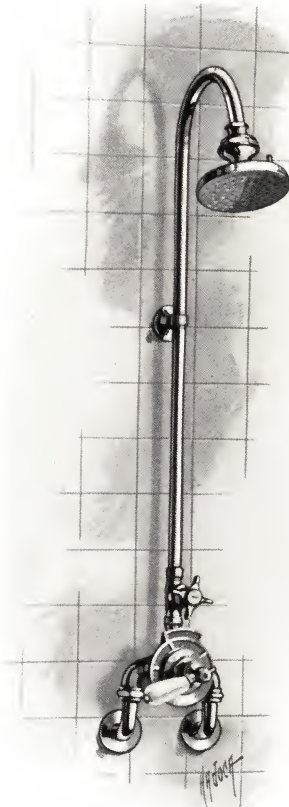


Plate W-348

Hajoca No. 162-4 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, No. 4 shower mixing valve, china lever handle and compression stop with No. 3-C china index handle.

As described.....\$ 36

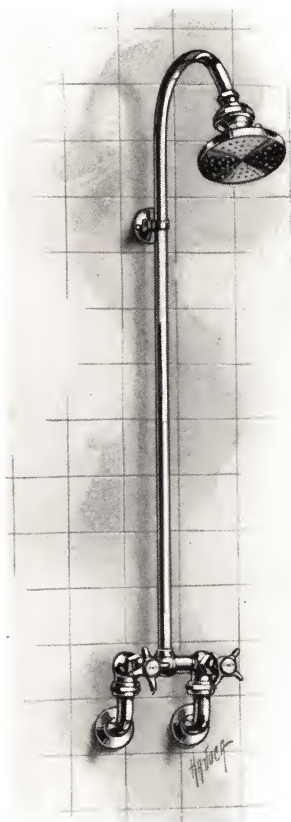


Plate W-356

Hajoca No. 162 nickel-plated shower with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, double compression shower mixing valve with No. 3-C china index handles.

As described.....\$ 19.50

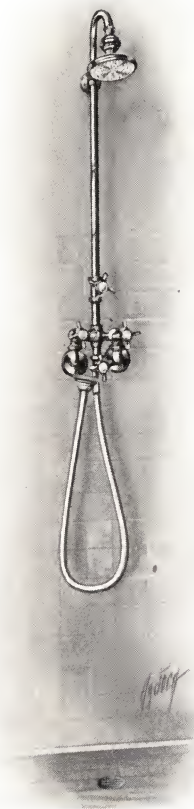


Plate W-358

Hajoca No. 152 nickel-plated shower and shampoo with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, rubber-bound sprinkler with rubber tubing and wall hook, double compression shower mixing valve and control valves with No. 3-C china index handles.

As described.....\$ 23.50

THE loose key stop (see plate W-393) permits the care-taker to adjust the volume to any shower and prevents tampering by the bathers. It is also the practical device to cut off any individual shower in a battery without interrupting the service to other fixtures on the line.



Plate W-360

Hajoca No. 162-4 nickel-plated shower with $\frac{1}{2}$ -inch iron pipe weight supply pipes to ceiling with compression loose key stops, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint and No. 4 shower mixing valve with china lever handle.

As described.....\$ 45.³⁰



Plate W-362

Hajoca No. 162 nickel-plated shower and $\frac{1}{2}$ -inch iron pipe weight supply pipes to ceiling with compression loose key stops, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint and double compression shower mixing valve with No. 3-C china index handles.

As described.....\$ 29

An extra charge will be made for supply pipes more than 4 feet long.

RUNNING the supply pipes down from above as shown on Plates W-360 and W-362 will often prove more convenient than bringing them up thru the floor. This arrangement also reduces the possibility of leakage around openings for the supply pipes thru the floor.

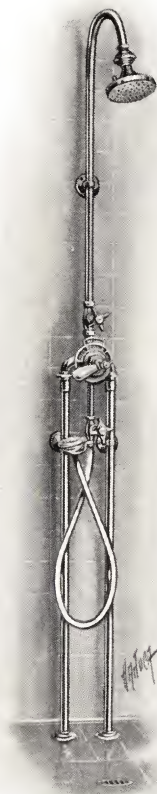


Plate W-364

Hajoca No. 152-4 nickel-plated shower and shampoo with $\frac{1}{2}$ -inch iron pipe weight supply pipes to floor, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, rubber-bound sprinkler with rubber tubing and wall hook, No. 4 shower mixing valve with china lever handle and control valves with No. 3-C china index handles.

As described.....\$ 46.75

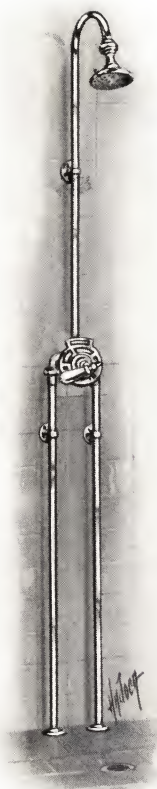


Plate W-365

Hajoca No. 162-4 nickel-plated shower with $\frac{1}{2}$ -inch iron pipe weight supply pipes to floor, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, No. 4 shower mixing valve with china lever handle.

As described.....\$ 40.75

For description of the No. 4 shower mixing valve see page 72.

OUR rain shower heads are heavy cast brass. They will not blow out even under high pressure. The face is removable so that any of the holes which become clogged with dirt can be readily cleaned.



Plate W-367

Hajoca No. 152 nickel-plated shower and shampoo with $\frac{1}{2}$ -inch iron pipe weight supply pipes to floor, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint, rubber-bound sprinkler with rubber tubing and wall hook, double compression shower mixing valve and control valves with No. 3-C china index handles.

As described.....\$33.25

Plate W-368 (not illustrated). Hajoca No. 162 shower as above, except without shampoo attachment and control valves.....\$24.25

Hajoca shower heads are equipped with air inlet valves, allowing the water in the head to drain rapidly when the supply is turned off, thus preventing a long continued dripping.

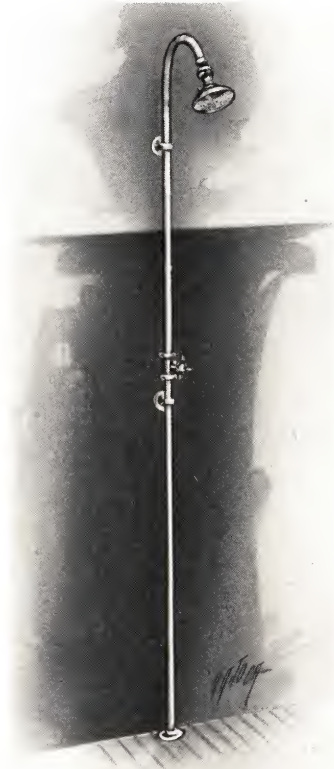


Plate W-369

Hajoca No. 191 nickel-plated shower for cold water only, with $\frac{1}{2}$ -inch iron pipe weight supply pipe to floor, cast brass rain shower head with removable face, air inlet valve and adjustable ball joint and compression stop with No. 3-C china index handle.

As described.....\$

The cold water shower Plate W-369 is suitable for Country Clubs, Camps, Summer Residences, Seaside Cottages and similar places where the fixture is used to rinse off salt water from bathers or where there is no hot water supply.



Plate W-370

Hajoca "Vulcan" shower with $\frac{1}{2}$ -inch supply connections to wall, cast brass rain shower head with removable face, air inlet valve, *galvanized* arm and connecting pipes, double compression shower mixing valve with No. 3-C china index handles and vertical self-closing control valve with china pull and chain. All brass work nickel plated.

As described \$ 27.50

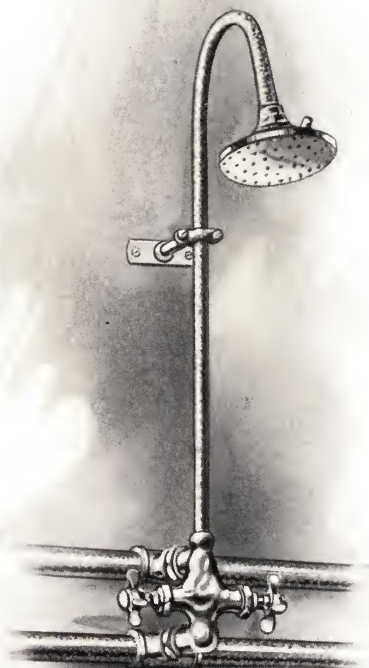


Plate W-372

Hajoca "Midvale" shower with $\frac{1}{2}$ -inch supply couplings, cast brass rain shower head with removable face, air inlet valve, *galvanized* goose neck, double compression side handle faucet with No. 3-C china index handles, no supply pipes or fittings included. All brass work nickel plated.

As described \$ 11.25

THE "Vulcan" and "Midvale" showers have been designed for industrial installations and are recommended for Foundries, Paint Works, Chemical Plants, Textile Factories, Ship Yards and other shops, desiring to provide for their work people the benefits of shower bathing. These showers are built to stand the severest service conditions and are moderate in cost.

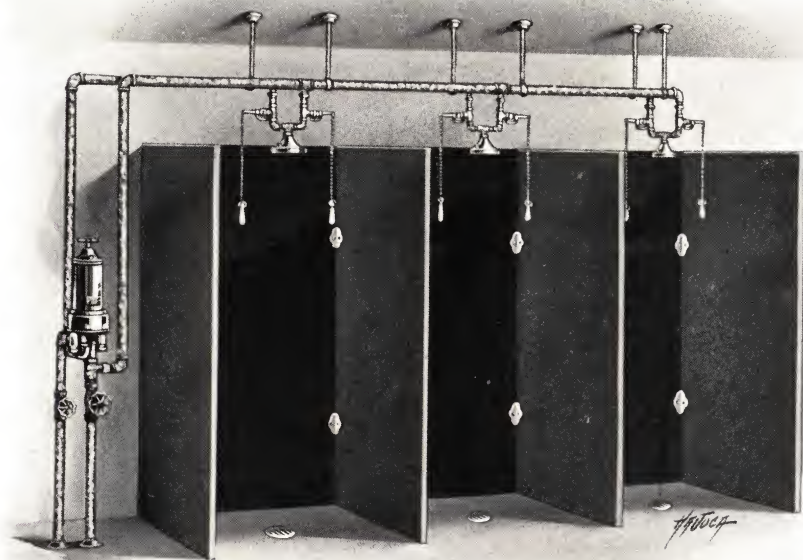


Plate W-374

Hajoca Shower Bath Battery with cast brass rain shower heads with removable faces and air inlet valves, with vertical self-closing control valves with china pulls and chains for both tempered and cold water supply lines, Leonard thermostat mixing valve with regulating lever, check valves and removable strainer screens and globe valves. Galvanized piping to be furnished by the plumber.

Prices, dimensions of stalls, sizes of piping, thermostat and other valves suitable for any given number of stalls will be furnished upon request.

WITH this equipment the bather makes use of two independent self-closing valves. One delivers water flowing thru the thermostat valve tempered to a warm comfortable degree to insure a cleansing bath without any possibility of scalding. The other self-closing valve delivers water from the cold supply line by-passed just before it enters the thermostat, enabling the bather to take a final cold shower if desired.

To help bathers tell at a glance which self-closing valve to pull, the tempered water valve with chain may be furnished nickel plated while the cold water valve with chain is furnished in finished brass. For separate illustrations and descriptions of the Leonard thermostat mixing valve, see pages 31 and 73.

The ease, speed and thoroughness with which shower bathing can be accomplished with the equipment shown above make this the desirable method in schools, institutions, factories and other places where the largest numbers must be accommodated promptly and without waste of water.

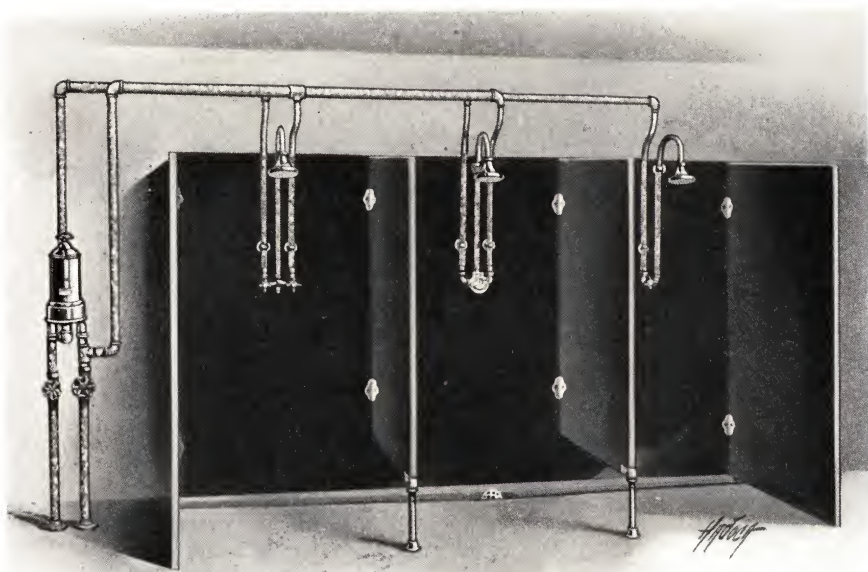


Plate W-376

This battery of shower baths shows how the Leonard thermostat mixing valve may be combined with any of several types of shower valves.

The left shower is equipped with the Hajoca double compression shower mixing valve with No. 3-C china index handles and receives tempered water from the thermostat valve and cold water from the cold supply line by-passed before it enters the thermostat. This shower valve enables the user to bathe in tempered water without possibility of scalding and to finish with cold water if desired.

In the middle stall both tempered and cold water are delivered to the Hajoca No. 4 shower mixing valve; the bather can draw from a one-handed valve water of any degree ranging from the tempered to the cold.

In the right hand stall only tempered water is delivered to the single compression control valve with No. 3-C china index handle. This, for instance, will be found an excellent arrangement for certain schools and institutions where the children may take a cleansing refreshing shower bath under their own direction without fear of scalding or the possibility of chilling.

Prices, dimensions of stalls, sizes of piping, thermostat and other valves suitable for any given condition will be furnished upon request. Galvanized piping to be furnished by the plumber.

WHERE there is a possibility of scalding from excessively heated water, the Leonard thermostat mixing valve will prove indispensable. It delivers water at a predetermined temperature and thus removes any chance of accidental scalding and prevents the wastage of hot water usually occurring when bathers try to mix highly heated and cold water.



Plate W-378

Hajoca "Institution" shower bath battery with cast brass rain shower heads with removable faces and air inlet valves, with horizontal self-closing control valves with china pulls and chains, Leonard thermostat mixing valve with regulating lever, check valves and removable strainer screens and globe valves. Galvanized piping to be furnished by the plumber.

Prices, dimensions of stalls, sizes of piping, thermostat and other valves suitable for any given number of stalls will be furnished upon request.

THIS shower battery is intended for use in institutions, asylums, schools and industrial plants. The main water supply is tempered by the Leonard thermostat mixing valve which delivers to each bather water at a given temperature. Each bather regulates his own flow with the horizontal self-closing valve and chain.

All possibility of accidental scalding or chilling is eliminated by the Thermostat valve and waste of water is prevented by the use of our self-closing valves.

Tho the thermostat valve is shown above enclosed in a cabinet as one of the means to prevent bathers from tampering with the volume or temperature controls, the same purpose can be accomplished without the cabinet by equipping the thermostat with a lock escutcheon. We recommend this locking feature wherever a set temperature of water is required, such as in schools, asylums, factory washrooms, etc. For separate illustrations and descriptions of the Leonard thermostat mixing valve, see pages 31 and 73.

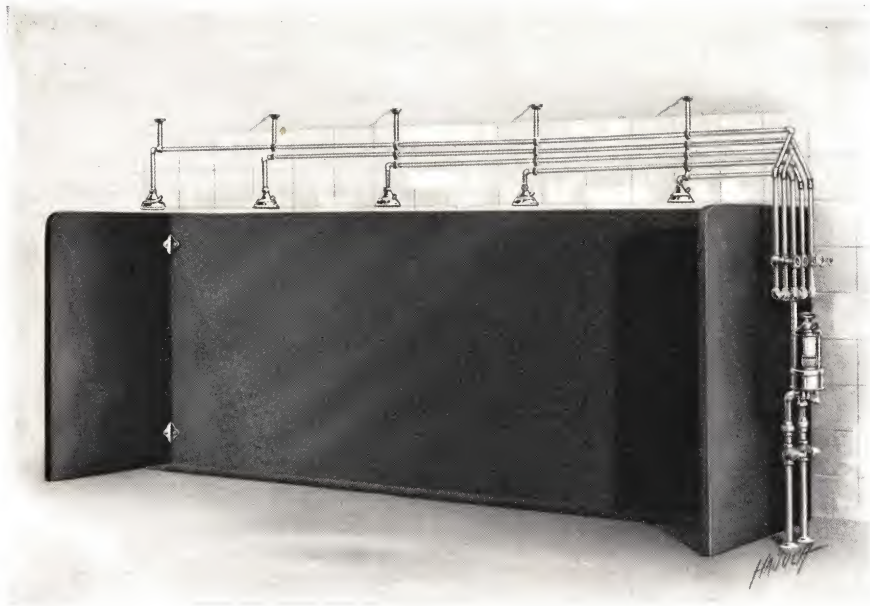


Plate W-380

Hajoca Shower Bath Battery with nickel-plated cast brass rain shower heads with removable faces and air inlet valves, Leonard thermostat mixing valve with regulating lever, check valves and removable strainer screens, separate control valves and loose key stops. Galvanized piping to be furnished by the plumber.

Prices, dimensions of stall, sizes of piping, thermostat and other valves suitable for any given number of shower heads will be furnished upon request.

The shower heads may be equipped with adjustable ball joints if desired; and the supply pipes may be furnished with arms and supported against the rear wall instead of hung from the ceiling.

THE single open stall gives the attendant full view of all the showers, so that any one not in use can be at once shut off. It also makes possible the supervision of the bathers. If preferred, however, partitions can be placed between the shower heads, making a separate enclosure for each bather. The concrete floor slopes to the gutter at the back, only a single connection to the waste pipe being necessary.

For institutional and factory installations the Leonard thermostat mixing valve is an indispensable device as it maintains and delivers water for shower bathing at a predetermined temperature, preventing accidental scalding or chilling. For further descriptions and illustrations, see pages 31 and 73.

Showers as shown above are subject to various modifications to suit the requirements of each individual case. They are specially adapted for use in insane hospitals, reform schools, homes for feeble-minded, and other places where large numbers must bathe in a short time and under supervision.



Plate W-384

Hajoca nickel-plated portable shower, with rain shower head, rubber tubing, faucet connection and round curtain ring, with white duck curtain and wall hook.....\$

Plate W-386. Hajoca nickel-plated rubber-bound shampoo sprinkler.

3-inch, each.....\$

The Hajoca Portable Shower is a satisfactory substitute for the permanent fixture, where it is not practical or desirable to install a shower stall or permanently connected shower bath.

For persons living in rented houses the Hajoca Portable Shower is particularly advantageous—it enables them to enjoy the benefits of shower-bathing without the expense of installing a permanent fixture, and it can be easily removed when the house is vacated, and taken to the next place of residence.

The healthfulness, enjoyment, and satisfaction from bathing by means of this fixture are beyond comparison with its extremely moderate price.

When a shower bath is desired the connection is merely clamped to the bath faucet and the water drawn. The connection can be quickly and readily made.

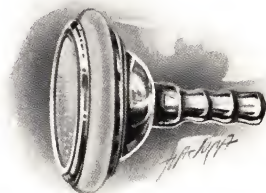


Plate W-386

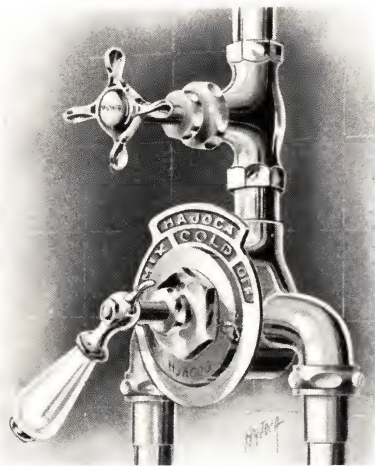


Plate W-388

Hajoca No. 4 nickel-plated shower mixing valve with china lever handle and compression stop with No. 3-C china index handle.

1/2-inch body, for 1/2-inch or 3/4-inch iron pipe, each\$ 24
3/4-inch body, for 3/4-inch iron pipe, each\$
If without compression stop, deduct.....\$ 2.50



Plate W-390

Hajoca No. 4 shower mixing valve concealed in wall, with china lever handle and china wall flange, and compression stop with No. 12-C all china index handle and china flange.

1/2-inch body, for 1/2-inch or 3/4-inch iron pipe, each\$ 25
3/4-inch body, for 3/4-inch iron pipe, each\$ 35
If without compression stop, deduct \$ 4

QUICKNESS of operation is a special feature of the No. 4 shower mixing valve. It opens to cold, mixed or hot water, as indicated on the dial, with less than a half turn. The mechanism is simple, the turning of the handle bringing ports on the rotating stem opposite first cold, then both cold and hot, and finally opposite the hot water outlet in the body. The valve is strongly built and will withstand severe use. It is free from eccentrics and complicated parts, and does not depend upon springs or any delicate adjustment for its successful operation. Under high pressure we recommend the use of a compression stop which will enable the bather to regulate the volume to the shower head.

The No. 4 valve controls the temperature of the water at the will of the bather, as well as thoroughly mixing it. Cold water always enters the valve first before any hot can flow, thus preventing the risk of scalding.

The satisfactory operation of shower valves depends upon proper piping and a reasonably uniform pressure and volume of water. This is specially important when showers are in a battery. The working parts on our No. 4 valve can be removed from in front for re-washing or repairing without disconnecting the fixture.

Plate W-392. Hajoca double compression shower mixing valve concealed in wall with No. 12-C all china index handles and china flanges, for 1/2-inch iron pipe.

Each.....\$

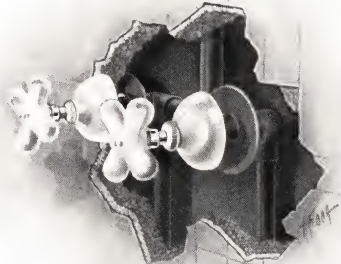


Plate W-392

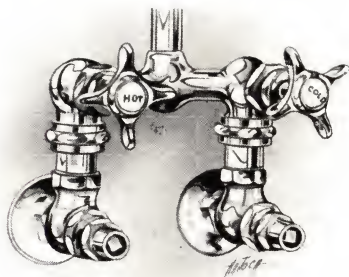


Plate W-393

Hajoca double compression shower mixing valve with No. 3-C china index handles and compression loose key angle stops to wall, for $\frac{1}{2}$ -inch iron pipe, each. . . \$ 17.50

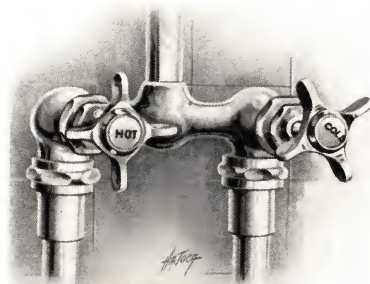


Plate W-394

Hajoca double compression shower mixing valve with No. 3-C china index handles, for $\frac{1}{2}$ -inch iron pipe, each. . . \$ 11.50
Same with No. 12-C all china index handles. . . \$ 11.50

Plate W-400. Leonard Thermostat mixing valve with check valves with removable strainer screens.

Hajoca number.	10	20	40	60	120
Inlets.	$\frac{1}{2}$ -inch	$\frac{3}{4}$ -inch	1-inch	1 $\frac{1}{4}$ -inch	1 $\frac{1}{2}$ -inch
Outlet.	$\frac{3}{4}$ -inch	1-inch	1 $\frac{1}{4}$ -inch	1 $\frac{1}{2}$ -inch	2-inch
Capacity in gallons, per minute* . . .	18	26	48	55	120
As shown, each.	\$	\$	\$	\$	\$
With wall flange for horizontal or vertical position, each.	\$	\$	\$	\$	—

When ordering, always state if valves are to be placed in a vertical or horizontal position. For further description, see page 31.

THE Leonard thermostat mixing valve receives water from the hot and cold supplies, mixes it and delivers at a predetermined temperature. This is the method of operation: The bather, let it be assumed, desires water at 90° from the combined flow of circulating hot water at 200° and cold at 60°. By moving the regulating lever to the 90° notch on the graduated scale and opening the hand wheel the water flows at the temperature indicated. This illustrates the predetermining of temperatures. If a higher or lower temperature is desired later on, the lever is moved to the notch designating required temperature. Thus any temperature from the lowest to the highest indicated on the graduated scale may be obtained by simply moving the lever.

Volume flow can also be controlled by the hand wheel at the top of valve. Control of volume flow does not affect the temperature control. To prevent anyone tampering with either the temperature or volume controls, a special locking device can be furnished when required.

*The capacities given are for tempered water delivered at a pressure of 45 pounds and with the valve opened full. Higher or lower pressures will increase or decrease these capacities. Always state pressure conditions when inquiring relative to capacity of valves to meet any given requirements.



Plate W-400
No. 10 Thermostat
Mixing Valve

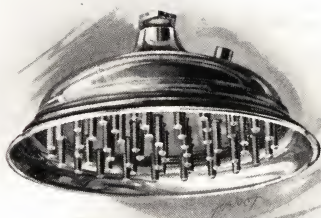


Plate W-402

Hajoca nickel-plated tubular shower head, with air inlet valve.

9-inch, with $\frac{1}{2}$ -inch inlet.....\$
 9-inch, with $\frac{3}{4}$ -inch inlet.....\$
 10 $\frac{1}{2}$ -inch, with $\frac{3}{4}$ -inch inlet.....\$



Plate W-404

Hajoca 18-inch nickel-plated ring shower (no pipe included).....\$

Where a stream of large area is desired, the ring shower shown above is recommended.

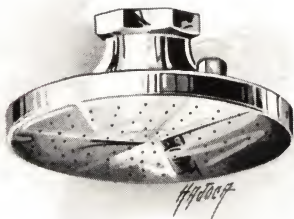


Plate W-406

Hajoca nickel-plated cast brass rain shower head, with removable face and air inlet valve.

5-inch, with $\frac{1}{2}$ -inch inlet.....\$ 2.50
 5-inch, with $\frac{3}{4}$ -inch inlet.....\$ 3.25
 6 $\frac{1}{2}$ -inch, with $\frac{1}{2}$ -inch inlet.....\$ 5.00
 6 $\frac{1}{2}$ -inch, with $\frac{3}{4}$ -inch inlet.....\$ 5.60

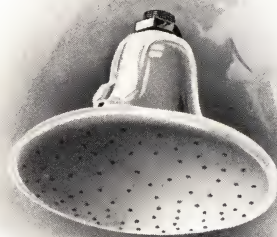


Plate W-408

Hajoca china rain shower head with air inlet.

4 $\frac{1}{2}$ -inch, with $\frac{1}{2}$ -inch inlet.....\$
 6 $\frac{1}{2}$ -inch, with $\frac{1}{2}$ -inch inlet.....\$
 6 $\frac{1}{2}$ -inch, with $\frac{3}{4}$ -inch inlet.....\$

PLATES W-402 and W-406 brass shower and rain heads are fitted with an air inlet valve. This allows the water to escape when the supply is turned off, avoiding the annoyance of long continued dripping. The brass rain heads have a removable face, giving easy access for cleaning any holes which may become clogged by the sediment in the water.

AS the white china head harmonizes with tile work, it is often chosen for tiled-in showers. If placed at an angle this head should be supplied thru a $\frac{3}{4}$ -inch pipe.

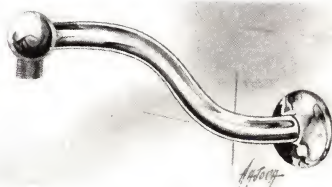


Plate W-410

Hajoca nickel-plated offset shower arm to wall with ell and wall flange.

$\frac{1}{2}$ -inch \$
 $\frac{3}{4}$ -inch \$

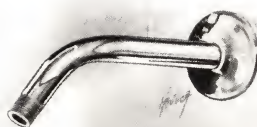


Plate W-412

Hajoca nickel-plated bent shower arm to wall with wall flange.

$\frac{1}{2}$ -inch \$
 $\frac{3}{4}$ -inch \$



Plate W-413

Hajoca nickel-plated brass vertical self-closing shower valve, with chain and china pull, for $\frac{1}{2}$ -inch iron pipe, each . . . \$

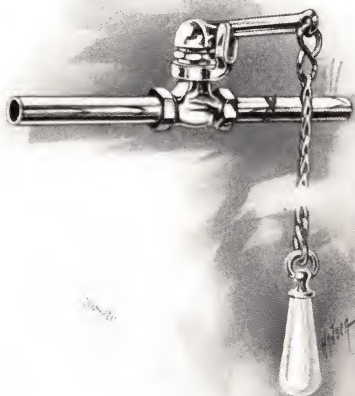


Plate W-414

Hajoca nickel-plated brass horizontal self-closing shower valve, with chain and china pull, for $\frac{1}{2}$ -inch iron pipe, each \$

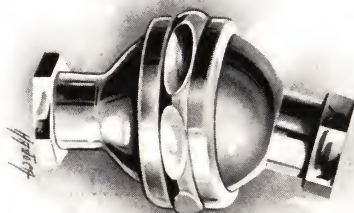


Plate W-415

Hajoca nickel-plated brass adjustable ball joint, for use with shower heads.

$\frac{1}{2}$ -inch, each \$
 $\frac{3}{4}$ -inch, each \$



Plate W-418

Hajoca nickel-plated shower curtain rod, with wall flanges, and white duck curtain, with eyelets. Prices furnished upon receipt of dimensions.



Plate W-420

Plate W-420. Hajoca nickel-plated snap curtain ring, each \$

Plate W-421. Hajoca nickel-plated roller bearing curtain ring, each . . \$

When ordering state diameter of curtain rod or ring with which plates W-420 and W-421 will be used.



Plate W-421

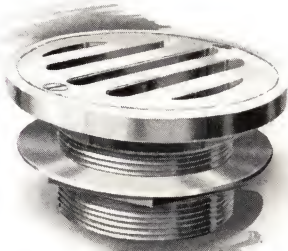


Plate W-426

Hajoca nickel-plated brass waste strainer, for 2-inch lead pipe, with removable grate.

Diameter, 4½ inches, each.....\$

This connection overcomes satisfactorily the otherwise difficult problem of making a tight and permanent connection from the shower stall waste to the drain pipe. The connection is first locked to the floor slab or shower receptor; then remove the grate, bring up the 2-inch lead waste pipe thru the center, flange over and solder to recess inside of connection near top.

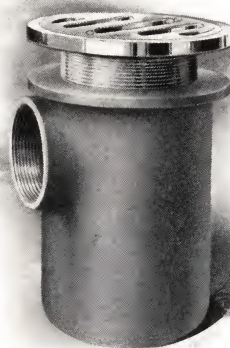


Plate W-428

Hajoca brass Shower Strainer and Trap, with nickel-plated top and removable grate, for 2-inch iron pipe. Diameter of flange 4½ inches; height over all 7¼ inches. Each.....\$

The inner extension which forms the seal of the trap is removable for cleaning.



Plate W-430

Hajoca No. 24 Floor Drain and Trap, iron body, with polished brass top and perforated hinged strainer.

Diameter, inches....	9	11	13
Height, inches.....	8	11	13
Outlet for iron pipe, inches.....	2	3	4
Each.....\$	\$	\$	\$



Plate W-431

Hajoca No. 25 Floor Drain and Trap, iron body, with polished brass top, perforated hinged strainer and hinged solid cover.

Diameter, inches....	9	11	13
Height, inches.....	8	11	13
Outlet for iron pipe, inches.....	2	3	4
Each.....\$	\$	\$	\$

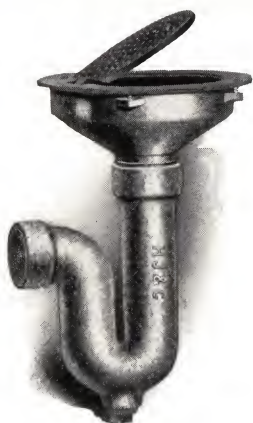


Plate W-432

Hajoca No. 14 Floor Drain, body and trap galvanized, with polished brass top and perforated hinged strainer.

Diameter, inches.....	9	11
Height, inches.....	14	14
Outlet for iron pipe, inches.....	2	3
Each.....	\$	\$



Plate W-434

Hajoca No. 10 flushing rim floor drain, with galvanized iron trap for 3-inch iron pipe, jet, polished brass top and perforated hinged strainer.

Diameter, 11 inches; height, 14½ inches, each.....\$

Plate W-436. Hajoca "Josam" double drainage waste connection, iron body with nickel-plated brass strainer and collar.

No. 300, 2-inch I. P. outlet, 4-inch strainer, each \$
No. 301, 3-inch I. P. outlet, 5-inch strainer, each \$

This connection is especially adapted for floors or stalls where a trap cannot be conveniently located.

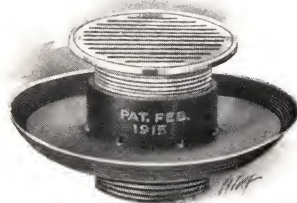


Plate W-436

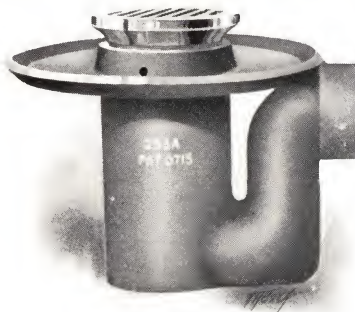


Plate W-438

Plate W-438. Hajoca "Josam" double drainage combined floor drain and trap, iron body with nickel-plated brass strainer and collar.

No. 200-A, 1½-inch I. P. outlet, 4-inch strainer, each.....\$
No. 203-A, 2-inch I. P. outlet, 5-inch strainer, each.....\$
No. 207-A, 3-inch I. P. outlet, 6-inch strainer, each.....\$
No. 2003-A, 2-inch hub outlet, 6-inch strainer, each.....\$

THE Hajoca "Josam" combined floor drains and traps are designed to insure double drainage. The collar screwing into the body of the drain is adjustable to suit different floor thicknesses, such as may be encountered in the construction of shower and urinal stalls or floors made of concrete, tile, marble or other composition. The extended flange catches any seepage between the outside of the collar and floor construction, draining it into the trap thru the drainage holes, thus preventing leaks to the ceiling below and assuring safe and double drainage.

HAJOCA LAVATORIES

THO Hajoca lavatories have always been of a high standard and comparable with our finest baths and showers, our lavatory department has surpassed even its best records of the past in bringing to perfection the distinctive designs shown on the following pages.

For beauty and fine quality, Hajoca Vitreo china lavatories excel. The china is vitrified thruout. It is a hard solid ceramic composed of the best clays obtainable for sanitary ware. It is impervious and resistant to chemicals, liquids, medicine and soap. Its surface is an unusually rich, smooth glossy one, and this fine appearance can be permanently retained. The ware is very easy to clean and to keep spotless. Before shipment, each lavatory has its compression supply and waste fittings carefully fitted. The variety to choose from includes designs for every requirement.

What has been done in perfecting Hajoca Vitreo china lavatories has likewise been successfully accomplished with Hajoca porcelain enameled lavatories. Attention is directed to the designs equipped with the No. 10 lifting-plug wastes which add the crowning sanitary feature to these choice and popular designs. To these fixtures Hajoca brass work gives the final element of durability. In the various styles and sizes shown every architectural and building condition has been provided for.

For special purposes like manicure parlors, hair dressing and barber shops, a number of special designs of fixtures are shown.

As industrial sanitation is claiming front rank attention, we have carefully provided for the sanitary requirements of the modern workshop. Every practical feature has been embodied to insure easy installation for the plumber and sanitary convenience for the user. In industrial plants, sanitary equipment is usually subjected to severe treatment and the questions of durability and maintenance are important ones. Hajoca brass work is the fitting answer to such questions. Hajoca industrial fixtures will insure low cost of upkeep and a high state of cleanliness and health.

THE HAJOCA CONCEALED WATER SUPPLY AND No. 10 LIFTING-PLUG WASTE

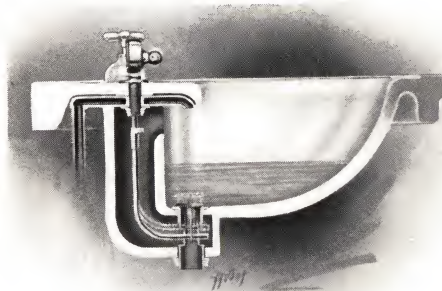


Plate W-500

Sectional view of the Hajoca concealed water supply
and No. 10 waste

THESE are two indispensable features in our Vitreo lavatory equipment adding to the convenience, appearance and efficiency of the fixture. A lip projects slightly from the top of the lavatory at the back, out over the bowl, partly hiding the overflow opening from view. The water enters the basin from a concealed nozzle placed underneath this lip, the stream being directed out towards the center of the basin, so that water may be readily drawn over the hands or into a glass.

The waste lever and supply valve handles are the only parts

appearing on top of the lavatory, reducing to a minimum the amount of nickel-plated work to be kept polished.

The combined flow of hot and cold water thru the central nozzle is a great convenience when shaving or cleansing the teeth, or for those who prefer to wash in fresh running water. The stream may be tempered to any desired degree, an advance over the older method of mixing water in the bowl from two separate faucets.

THE Hajoca No. 10 lifting-plug basin waste is similar in construction and operation to the Hajoca No. 10 bath waste (see page 3), and has the same unique advantages. It insures clean water for each user, because there is no backing up in the outlet pipe or concealed waste tubes to gather the sediment deposited from a previous bowlful of used water. This sanitary feature is approved by all, and is specially recommended by sanitarians.

In the Hajoca No. 10 lifting-plug waste the outlet is large and allows rapid escape of the water. The stopper can be easily removed and cleaned; it has a cage which prevents lint and hair from being washed into the trap; the operating lever is both simple and efficient.

Lavatories equipped with the Hajoca No. 10 waste have an extra large overflow of ample size to carry off all the water that both hot and cold supplies combined can admit to the bowl, thus preventing accidental overflowing of the basin and the consequent damage to rugs, ceiling and wall decorations beneath. The large size of the overflow channel gives easy access to the interior, so that a cloth may be drawn thru to keep it clear and clean.

These sanitary features are in sharp contrast to those found in the original "Pop-up" wastes, which are equipped with a small stopper that usually cannot be removed and their outlet is correspondingly small and cannot be easily cleaned and, consequently, frequently becomes stopped up by lint and hair.



Plate W-501

Hajoca No. 431-2 "Adelphia" Vitreo china lavatory with large concealed overflow and anti-splash rim, with No. 411 Vitreo china pedestal, nickel-plated wall supports, No. 10 lifting-plug waste with china lever, compression supply fittings with concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 10 trap to wall.

Sizes, inches.....	28 x 22	30 x 24	32 x 24
Size of basin, inches.....	$18\frac{1}{2}$ x 13	20 x 14	20 x 14
As described.....	\$	\$	\$

THE sanitary merits of this lavatory are as distinctive and characteristic as its beautiful design.

Equipped with the No. 10 basin waste which prevents soapy or other residue from previous washings backing up at the next drawing, it insures for each user a bowl of water as clean and sweet as the fixture itself.

The overflow is ample to waste both hot and cold streams should a user accidentally leave the lavatory without turning off the water. This prevents overflowing of the fixture or flooding of the room.

The Hajoca concealed water supply does away with the nozzle on top of the lavatory and leaves the surface clear, except for the waste lever and supply valves. The combination hot and cold water supply is a convenience much appreciated by those desiring to wash with fresh running water which can be tempered to any degree while running.

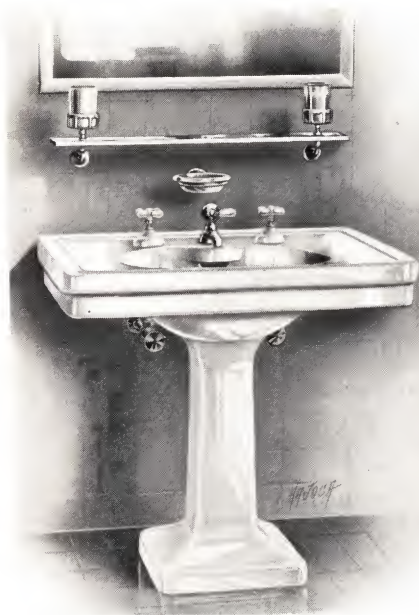


Plate W-502

Plate W-502. Hajoca No. 431-2 "Adelphia" Vitreo china lavatory with large concealed overflow and anti-splash rim, with No. 411 Vitreo china pedestal, nickel-plated wall supports, No. 10 lifting-plug waste with china lever, compression supply fittings with top nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 10 trap to wall.

Sizes, inches	Basin, inches	As described
28 x 22	$18\frac{1}{2}$ x 13	\$
30 x 24	20 x 14	\$
32 x 24	20 x 14	\$

THIS lavatory is similar to Plate W-501, except that the water supply enters thru a top nozzle. Any Hajoca concealed supply lavatory can be equipped with the top nozzle if preferred.

Plate W-503. Hajoca No. 415-2 "Ovalton" Vitreo china oval lavatory with large concealed overflow and anti-splash rim, with No. 403 Vitreo china pedestal, nickel-plated wall supports, No. 10 lifting-plug waste with china lever, compression supply fittings with concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 10 trap to wall.

Size, inches.....30 x 24
Size of basin, inches.....17 x 12
As described.....\$

Hajoca heavy Vitreo china lavatories harmonize in color with the tiling and white enamel finish now so generally used in modern bath and toilet rooms.

When desired the "Adelphia" and "Ovalton" lavatories can be equipped with two separate faucets in place of the combination supply fittings with top or concealed supply nozzle.

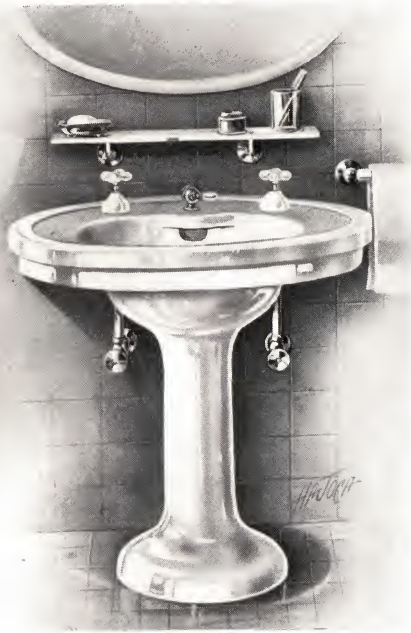


Plate W-503

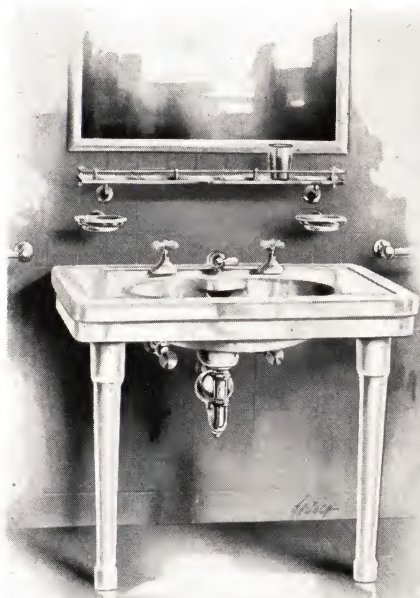


Plate W-504

Plate W-506. Hajoca No. 431-2
"Adelphia" Vitreo china lavatory with large concealed overflow and anti-splash rim, with iron brackets and Vitreo china shields, No. 10 nickel-plated lifting-plug waste with china lever, compression supply fittings with concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 10 trap to wall.

Sizes, inches	Basin, inches	As described
28 x 22	$18\frac{1}{2}$ x 13	\$
30 x 24	20 x 14	\$
32 x 24	20 x 14	\$

FOR those desiring the "Adelphia" lavatory without pedestal the design shown here is recommended. Cast iron brackets provide substantial support for the china slab and these are enclosed within china shields giving the fixture a handsome appearance.

The wall and studding to which the iron brackets are attached should be firm and rugged.

Plate W-504. Hajoca No. 431-2
"Adelphia" Vitreo china lavatory with large concealed overflow and anti-splash rim, with Vitreo china legs, nickel-plated wall supports, No. 10 lifting-plug waste with china lever, compression supply fittings with concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 10 trap to wall.

Sizes, inches	Basin, inches	As described
28 x 22	$18\frac{1}{2}$ x 13	\$
30 x 24	20 x 14	\$
32 x 24	20 x 14	\$

THE white china handles on waste and supply valves save much labor in polishing. The working parts can be removed from the top of the lavatory, a convenience feature much appreciated should a rewashing of the valves become necessary.

For descriptions of the various accessories shown, see pages 152-165.

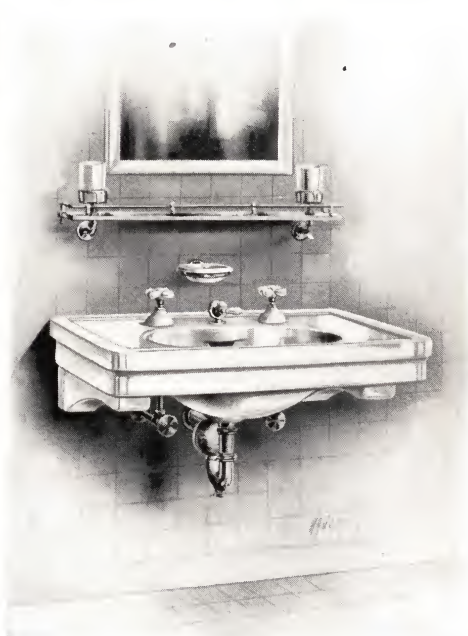


Plate W-506

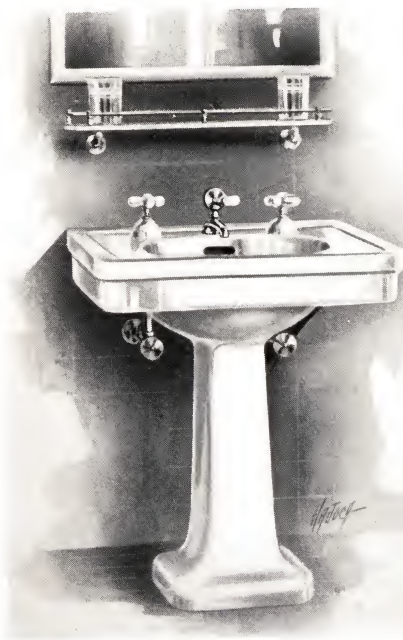


Plate W-510

Plate W-511. Hajoca No. 431-4 "Pennbury" Vitreo china lavatory with open overflow and anti-splash rim, No. 411 Vitreo china pedestal, nickel-plated wall supports, No. 15 lifting-plug waste with china lever, No. 20 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Size, inches 24 x 20
Size of basin, inches 16 x 12
As described \$

THE No. 15 waste is very similiar in construction to the No. 10, but the waste plug and overflow are slightly smaller. It holds the water at the basin outlet, preventing contact with concealed pipes and is a positive safeguard against sediment from previous washings backing up into the basin.

Plate W-510. Hajoca No. 431-4 "Pennbury" Vitreo china lavatory with open overflow and anti-splash rim, No. 411 Vitreo china pedestal, nickel-plated wall supports, No. 15 lifting-plug waste with china lever, compression supply fittings with top nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Size, inches 24 x 20
Size of basin, inches 16 x 12
As described \$

THIS is one of our most popular and substantial designs on which the supply enters thru a single top nozzle, enabling the user to draw and wash in tempered water as it runs from the nozzle.

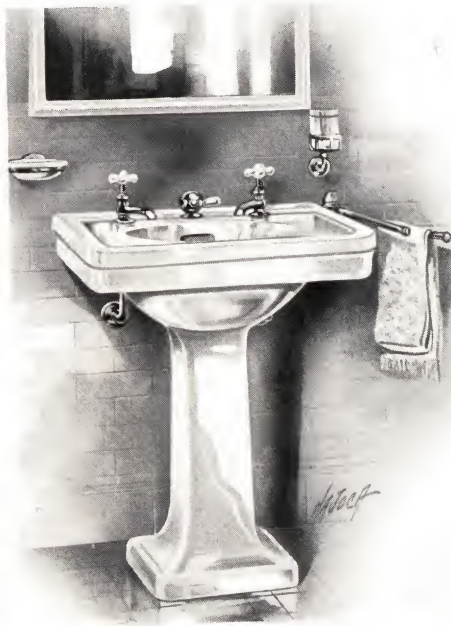


Plate W-511

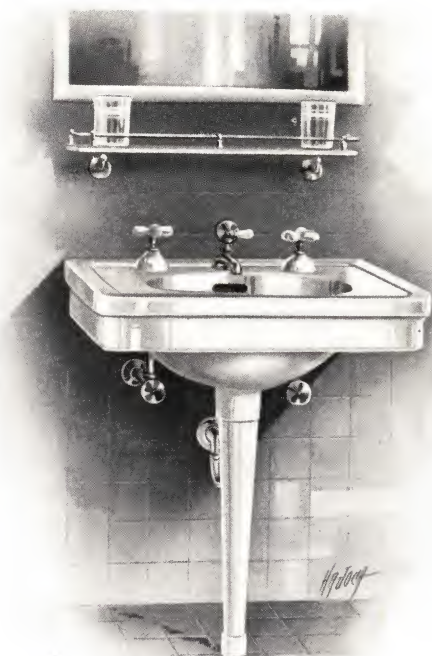


Plate W-512

Hajoca No. 431-4 "Pennbury" Vitreo china lavatory with open overflow and anti-splash rim, Vitreo china center standard, nickel-plated wall supports, No. 15 lifting-plug waste with china lever, compression supply fittings with top nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches.....	20 x 18	24 x 20
Size of basin, inches.....	15 x 11	16 x 12
As described.....	\$	\$

HAJOCA Vitreo china is the ideal material for sanitary fixtures. It is absolutely non-absorbent and will not craze, stain or discolor. Its gloss surface will permanently retain its original beauty and inviting appearance.

No laborious effort is needed to keep this material spotlessly clean; wiping now and then with a damp cloth is all that is required.

The center standard shown on the above lavatory provides firm and substantial support; it stands well back out of the way and is easy to set up and install. Lavatories supported in this manner are frequently chosen for public toilet rooms as well as for residences.

The bowls are large and have anti-splash rims which prevent water which enters the basins under high pressure from surging out over the front edges.

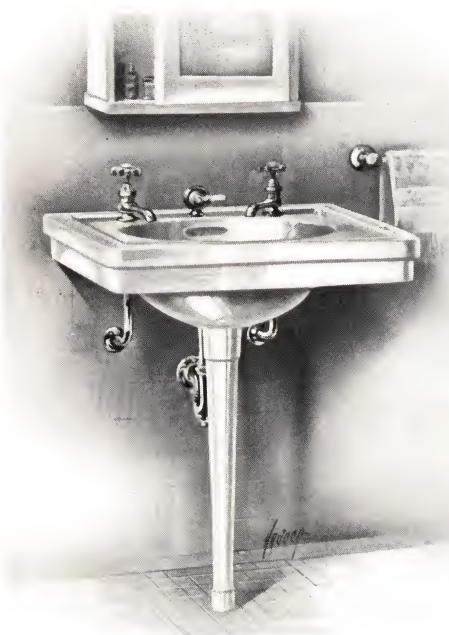


Plate W-513

Plate W-516. Hajoca No. 432-4 "Pennbury" Vitreo china lavatory with 6-inch integral back, open overflow and anti-splash rim, Vitreo china center standard, concealed wall hanger, nickel-plated No. 15 lifting-plug waste with china lever, No. 71 nickel-plated self-closing basin faucets with china indexed Easy-grip handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with loose-key stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

FOR public washrooms this is a most practical lavatory; the No. 15 waste prevents soapy residue from previous washings backing up into the bowl; the self-closing faucets shut off the water the instant the handles are released and the loose key stops cannot be tampered with.

Plate W-513. Hajoca No. 431-4 "Pennbury" Vitreo china lavatory with open overflow and anti-splash rim, Vitreo china center standard, nickel-plated wall supports, No. 15 lifting-plug waste with china lever, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

THE Hajoca basin faucets, trap and supplies on this fixture are comparable in quality and durability to the superior Vitreo china of the lavatory itself.

When desired Plates W-513 and W-516 can be equipped with plug and chain as shown Plate W-519 in place of the No. 15 waste.

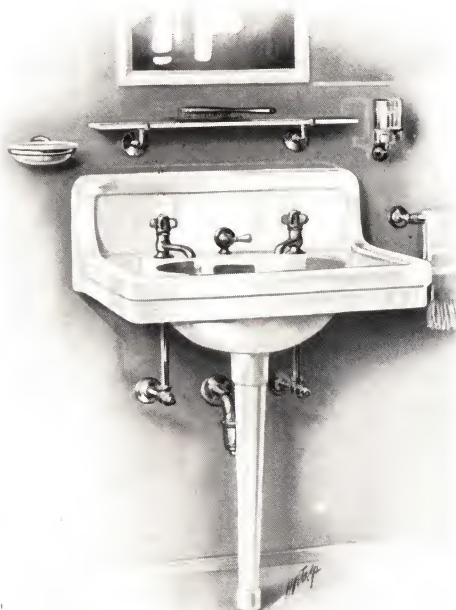


Plate W-516

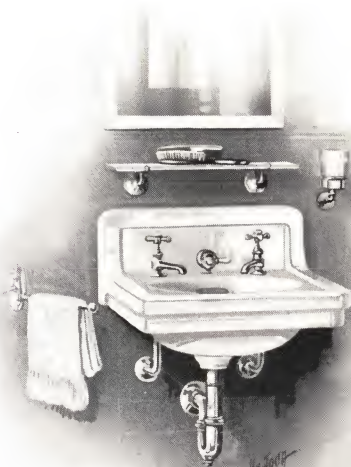


Plate W-517

Plate W-518. Hajoca No. 432-4 "Pennbury" Vitreo china lavatory with 6-inch integral back, open overflow, anti-splash rim, and concealed wall hanger, drilled and fitted with nickel-plated soap dispenser with glass container, No. 15 lifting-plug waste with china lever, No. 71 self-closing basin faucets with china indexed Easy-grip handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 32 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

A NUMBER of these lavatories have been furnished for banks, offices and other public buildings. The soap dispenser provides clean, untouched liquid soap for each user; waste of water is prevented by the No. 71 self-closing basin faucets; the 6-inch back prevents splashing of the wall; Hajoca high grade red brass work insures economy in upkeep.

Plate W-517. Hajoca No. 432-4 "Pennbury" Vitreo china lavatory with 6-inch integral back, open overflow and anti-splash rim, concealed wall hanger, nickel-plated No. 15 lifting-plug waste with china lever, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

THE beautiful high gloss surface of Hajoca Vitreo china lavatories is stain- and discolor-proof and being absolutely non-absorbent it can be kept sanitary and sweet by wiping now and then with a damp cloth.

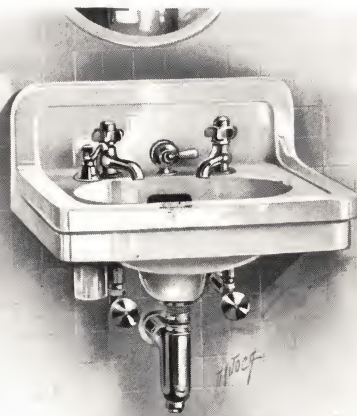


Plate W-518

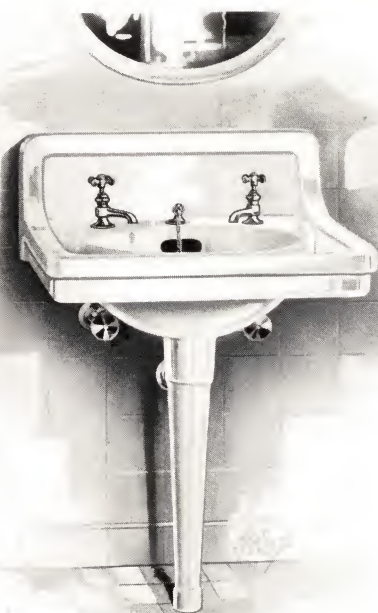


Plate W-519

Plate W-520. Hajoca No. 432 "Pennbury" Vitreo china lavatory with 6-inch integral back, open overflow and anti-splash rim, concealed wall hanger, nickel-plated plug, chain and chain holder, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 45 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

When installing, care should be taken to provide a substantial support in the wall to which the wall hangers can be firmly attached.

OUR Vitreo lavatories are practically indestructible. The "body" is highly vitrified so as to be absolutely non-absorbent, and is covered with a thick rich glaze which is handsome in appearance and easily kept clean, and will not craze or discolor.

Plate W-519. Hajoca No. 432 "Pennbury" Vitreo china lavatory with 6-inch back, open overflow and anti-splash rim, Vitreo china center standard, concealed wall hanger, nickel-plated plug, chain and chain holder, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
20 x 18	15 x 11	\$
24 x 20	16 x 12	\$

IN public wash rooms the Hajoca lavatory with center standard is desirable as it furnishes substantial support. Likewise for the wear and tear incident to public service requirements Hajoca brass work holds first rank. It has marked durability and its lustrous nickel surface is especially long-lived.



Plate W-520

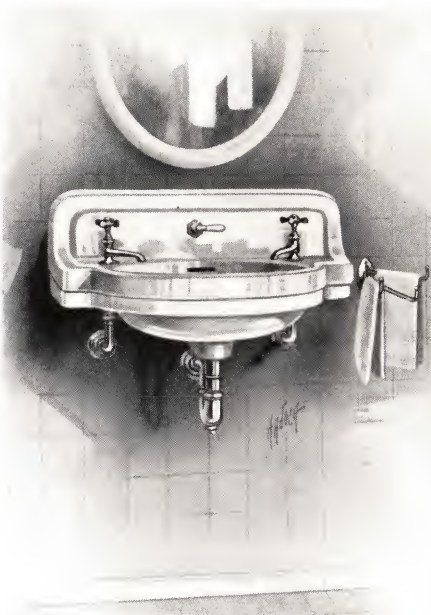


Plate W-522

Plate W-523. Hajoca No. 426 "Laconic" Vitreo china round front lavatory with 6-inch integral back and open overflow, concealed wall hanger, nickel-plated plug, chain and chain holder, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Same as Plate W-522.

As described. \$

THIS small lavatory is made of the same superior quality of Vitreo china as our larger size fixtures and is equipped with the same high grade brass work. Continuous service and a low upkeep cost will result from their installation. These qualities combined with the space-saving feature make this lavatory a practical one for many kinds of office and other buildings.

Plate W-522. Hajoca No. 426-4 "Laconic" Vitreo china round front lavatory with 6-inch integral back and open overflow, concealed wall hanger, nickel-plated No. 15 lifting-plug waste with china lever thru back, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Lavatory, 24 x 14 inches; basin, 14 x 10 inches.

As described. \$

FOR limited spaces the "Laconic" has proved a most popular design; the bowl is long yet narrow, providing ample accommodations for offices, coat rooms, compartments under stairways and where it is required to save space. The No. 15 waste prevents soapy residue from previous washings backing up at the next filling of the bowl; it insures for each user a bowl of water as clean as the fixture itself.



Plate W-523



Plate W-525

Plate W-529. Hajoca No. 462
 "Cortona" Vitreo china corner lavatory with 6-inch integral backs, open overflow and anti-splash rim, concealed wall hanger, nickel-plated wall supports, plug, chain and chain holder, No. 20 compression basin faucets with No. 3-C china index handles, 3/8-inch iron pipe weight supply pipes to wall and 1 1/4-inch No. 22 trap to wall.

Length of sides, inches	16 1/2	19 1/2
From corner to center		
of front, inches....	22 1/2	23 1/2
Size of basin, inches...	15 x 11	16 x 12
As described.....	\$	\$

When installing, care should be taken to provide solid and ample support in the wall to which the wall hanger can be firmly attached.

THE bowls of the "Cortona" lavatories have anti-splash rims which prevent water which enters the basins under high pressure from surging out over the front edges.

Plate W-525. Hajoca No. 462-4
 "Cortona" Vitreo china corner lavatory with 6-inch integral backs, open overflow and anti-splash rim, Vitreo china center standard, concealed wall hanger, nickel-plated wall supports, No. 15 lifting-plug waste with china lever, No. 20 compression basin faucets with No. 3-C china index handles, 3/8-inch iron pipe weight supply pipes to wall with wheel handle stops and 1 1/4-inch No. 22 trap to wall.

Length of sides, inches	16 1/2	19 1/2
From corner to center		
of front, inches....	22 1/2	23 1/2
Size of basin, inches..	15 x 11	16 x 12
As described.....	\$	\$

THE center standard presents an attractive appearance and provides a firm support for the lavatory. Plate W-525 is recommended for public toilet rooms as well as for residences. Its design is extremely pleasing and its entire surface can easily be kept inviting and spotless.



Plate W-529



Plate W-540

Plate W-541. Hajoca No. 231-3 "Puritan" porcelain enameled apron lavatory with large overflow, No. 210 porcelain enameled pedestal, nickel-plated No. 10 lifting-plug waste with china lever, overflow strainer, No. 20 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x $10\frac{1}{2}$	\$
27 x 22	$16\frac{1}{2}$ x $12\frac{1}{2}$	\$

ON lavatories Plates W-540 and W-541 the overflow is ample to waste both hot and cold streams should a user inadvertently leave without turning off the water. This prevents overflowing of the fixture or flooding of the room. For other facts about the No. 10 waste see page 80.

Plate W-540. Hajoca No. 231-3 "Puritan" porcelain enameled apron lavatory with large overflow, No. 210 porcelain enameled pedestal, nickel-plated No. 10 lifting-plug waste with china lever, overflow strainer, compression supply fittings with semi-concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x $10\frac{1}{2}$	\$
27 x 22	$16\frac{1}{2}$ x $12\frac{1}{2}$	\$

THE "Puritan" porcelain enameled pedestal lavatory is equipped with the Hajoca No. 10 waste which prevents soapy or other residues from previous washings backing up at the next drawing, and so insures for each user a bowl of water as clean and pure as the spotless interior of the fixture itself.



Plate W-541



Plate W-543

Plate W-544. Hajoca No. 231-5 "Puritan" porcelain enameled apron lavatory, No. 210 porcelain enameled pedestal, nickel-plated No. 20 waste with china knob, No. 20 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	17 x 13	\$
30 x 22	17 x 13	\$

THESE lavatories are made with an exterior of highly lustrous porcelain enamel; this material insures a beautifully smooth sanitary surface which can be readily cleaned and kept spotless. Plates W-543 and W-544 are equipped with No. 20 wastes the stand pipes of which can be easily removed for cleaning and scouring.

Plate W-543. Hajoca No. 231-5 "Puritan" porcelain enameled apron lavatory, No. 210 porcelain enameled pedestal, nickel-plated No. 20 waste with china knob, compression supply fittings with top nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	17 x 13	\$
30 x 22	17 x 13	\$

THE working parts of the compression supply fittings can be removed from on top the lavatory when necessary for rewashing.

As the hot and cold water are delivered thru one nozzle, the user may wash in running water tempered to suit personal requirements.



Plate W-544



Plate W-545

Plate W-545. Hajoca No. 231 "Puritan" porcelain enameled apron lavatory with overflow, No. 210 porcelain enameled pedestal, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	17 x 13	\$
30 x 22	17 x 13	\$

THE "Puritan" is a choice design and has become one of our most popular porcelain enameled lavatories. The faucets on such a fixture are subject to frequent use and unless of superior design, material and workmanship, annoying drips and leaks are likely to develop. Hajoca faucets should always be installed where freedom from such annoyances and unbroken service are desired.

Plate W-548. Hajoca No. 232-3 "Chalfonte" porcelain enameled apron lavatory with 12-inch back and large overflow, porcelain enameled center standard, concealed wall hanger, nickel-plated No. 10 lifting-plug waste with china lever, overflow strainer, compression supply fittings with semi-concealed nozzle, No. 12-C all china index handles and china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to floor and $1\frac{1}{2}$ -inch No. 10 trap to floor.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	16 x $12\frac{1}{2}$	\$

THE center standard forms a substantial support for the lavatory, as well as presenting an attractive appearance. It stands well back out of the way, is simple to install and easy to keep clean. It is specially recommended for toilet rooms in which the lavatory is liable to severe use, or where the wall is not sufficiently strong to carry the entire weight of the fixture.



Plate W-548



Plate W-549

Plate W-549. Hajoca No. 232-3
"Chalfonte" porcelain enameled apron lavatory with 12-inch back and large overflow, concealed wall hanger, nickel-plated No. 10 lifting-plug waste with china lever, overflow strainer, compression supply fittings with semi-concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	16 x 12 $\frac{1}{2}$	\$

THE supply nozzle is partly concealed and is conveniently placed for washing in running water or for filling a glass. The combined normal discharge of hot and cold water is easily carried off thru the large overflow and thus is removed any possibility of the basin overflowing, should any user leave the lavatory without turning off the water.

Plate W-550. Hajoca No. 232-3
"Chalfonte" porcelain enameled apron lavatory with 12-inch integral back and large overflow, concealed wall hanger, nickel-plated No. 10 lifting-plug waste with china lever, overflow strainer, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{2}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20	15 x 12	\$
27 x 22	16 x 12 $\frac{1}{2}$	\$

THE Hajoca No. 232-3 lavatory is thoroly modern and sanitary in its equipment. The Hajoca No. 10 waste is the same as that used with our Vitreo lavatories (see sectional illustration and description on page 80). The user has the benefit of perfectly clean water every time the basin is filled, as there are no concealed waste pipes with which the water in the bowl may come in contact.

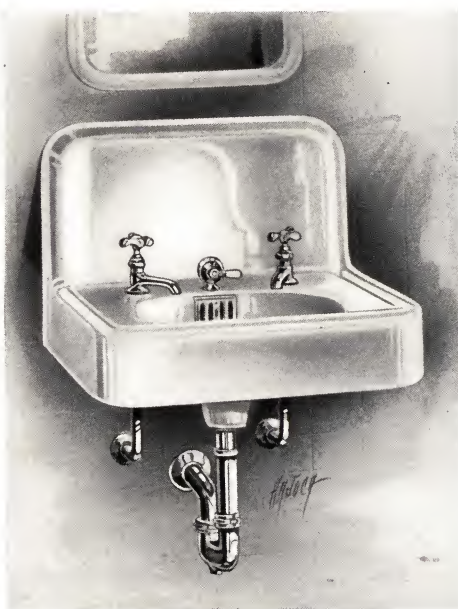


Plate W-550



Plate W-552

Plate W-553. Hajoca No. 232-5 "Marion" porcelain enameled apron lavatory with back and concealed wall hanger, No. 20 waste with china knob, No. 20 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 44 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 18 x 10	16 x 11	\$
24 x 20 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

THE concealed wall hanger furnished with this lavatory provides substantial support; the lavatory, back and apron are made in one integral piece and finished with the highest quality porcelain enamel. There are no seams or joints to collect dust and the fixture can be readily kept clean and spotless.

Plate W-552. Hajoca No. 232-5 "Marion" porcelain enameled apron lavatory with back and concealed wall hanger, nickel-plated No. 20 waste with china knob, compression supply fittings with top nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 44 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 18 x 10	16 x 11	\$
24 x 20 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

AS the hot and cold are delivered thru one nozzle, the user may wash in running water tempered to suit personal requirements. The china parts on the supply and waste fittings add beauty to the fixture and materially reduce the amount of nickel-plated surfaces to be polished.



Plate W-553

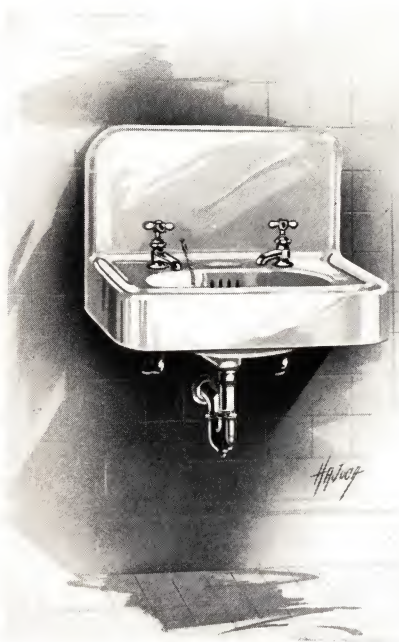


Plate W-554

Plate W-554. Hajoca No. 232
 "Marion" porcelain enameled apron lavatory with back and overflow, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
21 x 17 x 8	15 x $10\frac{1}{2}$	\$
24 x 18 x 10	16 x 11	\$
24 x 20 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

A depressed integral soap dish is furnished with the 21 x 17 and 24 x 18 inch sizes.

ON account of its attractive design, its sanitary features and its moderate price, the "Marion" lavatory is the frequent choice of many customers. It makes an excellent lavatory for the moderate cost home and is well suited for batteries in office buildings, hotels and public toilet rooms. Plate W-555 shows a battery equipped with $1\frac{1}{4}$ -inch No. 22 traps and $\frac{3}{8}$ -inch supply pipes to floor and with space between each fixture for easy cleaning. Such space should not be less than $1\frac{1}{2}$ inches.

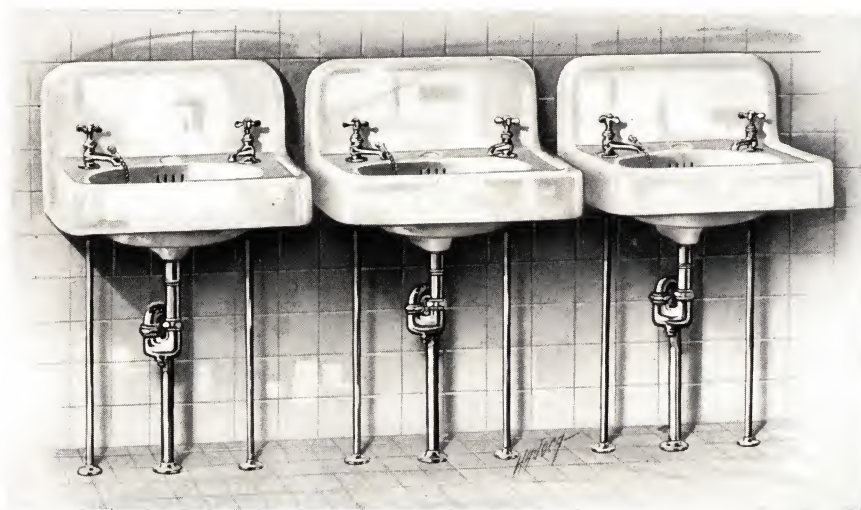


Plate W-555

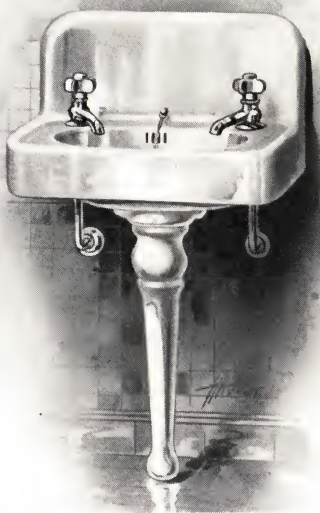


Plate W-556

Plate W-557. Hajoca No. 232 "Marion" porcelain enameled apron lavatory with back and overflow, concealed wall hanger, nickel-plated liquid soap dispenser with glass container, plug, chain and chain ring, No. 44 Quick double basin faucet with china lever handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with loose key stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 18 x 10	16 x 11	\$
24 x 20 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

FOR banks, office buildings, etc., this lavatory has a number of distinctly practical features. The user can draw and wash in running tempered water from a single nozzle. The soap dispenser provides a supply of clean liquid soap. The loose key stops permit the caretaker to regulate the volume of water.

Plate W-556. Hajoca No. 232 "Marion" porcelain enameled apron lavatory with back and overflow, concealed wall hanger, porcelain enameled center standard, nickel-plated plug, chain and chain ring, No. 71 self-closing basin faucets with china indexed Easy-grip handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 18 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

A depressed integral soap dish is furnished with the 24 x 18 inch size.

THIS is a practical fixture for schools, public buildings, offices, etc. The self-closing faucets prevent waste of water; the center standard affords substantial support; the back saves the wall from splash.

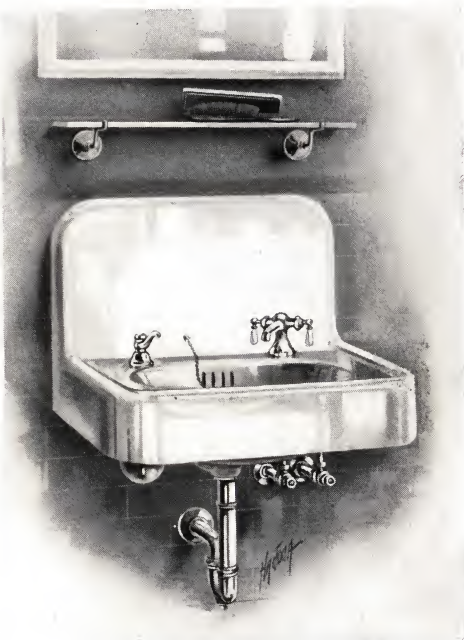


Plate W-557

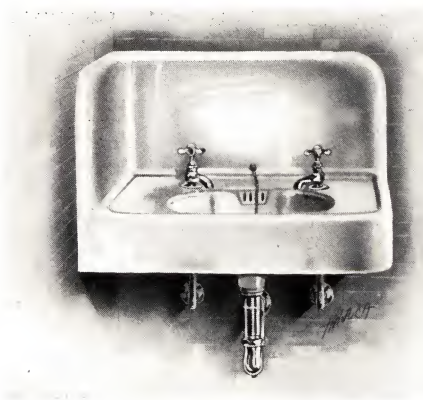


Plate W-560

Plate W-560. Hajoca No. 252 porcelain enameled apron lavatory for corner with back, left-hand end and overflow, concealed wall hangers, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 18 x 10	15 x 11	\$
24 x 20 x 12	15 x 12	\$
27 x 22 x 12	17 x 13	\$

WHEN ordering always specify if for left-hand corner as shown, or for right-hand corner.

Hajoca porcelain enameled lavatories with backs and ends are cast in one integral piece without seams or joints to harbor dirt or grime. The porcelain enameled surface has a rich, beautiful lustre which can easily be kept spotless and inviting.

Plate W-562. Hajoca No. 256 porcelain enameled apron lavatory for recess with back and two ends and overflow, concealed wall hangers, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
21 x 16 x 8	15 x 12	\$
24 x 18 x 8	15 x 10 $\frac{1}{2}$	\$
26 x 20 x 8	15 x 12	\$
31 x 21 x 8	17 x 13	\$

Note. The 21 x 16-inch lavatory has the front swelled.

THE stops in the supply pipes save much annoyance when rewashing the faucets, especially in large buildings where it would otherwise be necessary to shut off the water from an entire line of fixtures while making repairs.



Plate W-562

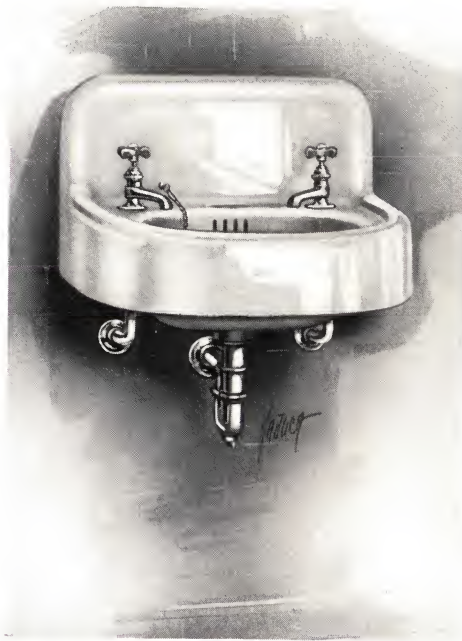


Plate W-564

Plate W-564. Hajoca No. 224 "Priscilla" porcelain enameled round front apron lavatory with back and overflow, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
19 x 17 x 6	15 x $10\frac{1}{2}$	\$
21 x 18 x 8	$14\frac{1}{2}$ x $10\frac{1}{4}$	\$
24 x 19 x 10	15 x 12	\$

A depressed integral soap dish is furnished with the 19 x 17 and 21 x 18 inch sizes.

WHEN desired in batteries individual "Priscilla" lavatories can be installed as shown below with $1\frac{1}{2}$ -inch continuous waste and trap. The bowls are placed far enough apart to make them easily accessible for cleaning. Such batteries are suitable for public toilet rooms, office buildings, schools and institutions. The individual lavatory is an excellent design for moderate price residences, coat rooms, etc.

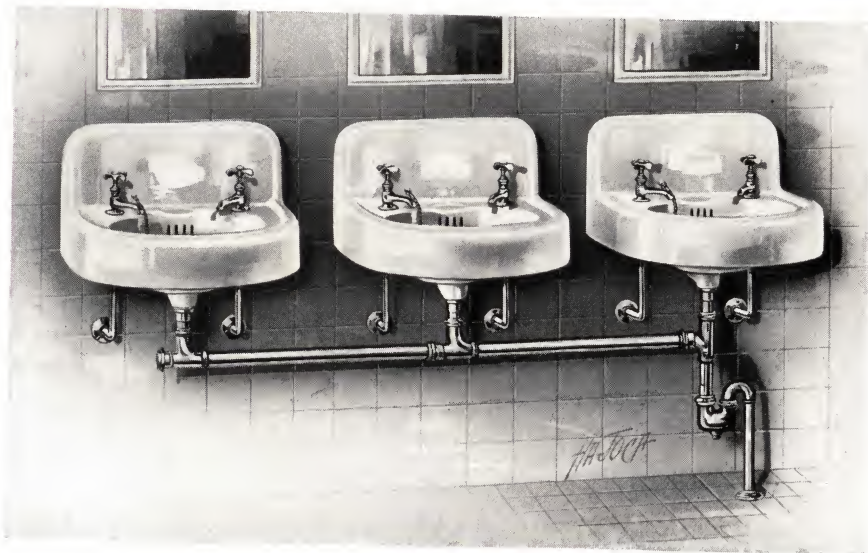


Plate W-566



Plate W-568

Plate W-570. Hajoca No. 224 "Priscilla" porcelain enameled round front apron lavatory with 8-inch back and overflow, porcelain enameled center standard, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch Hajoca No. 22 trap to wall.

Dimensions—Lavatory, 21 x 18 inches; basin, $14\frac{1}{4}$ x $10\frac{1}{4}$ inches.
As described \$

Plate W-571 (not illustrated) Hajoca No. 224-5 lavatory as above, except with nickel-plated No. 20 waste with china knob, in place of plug, etc.

Dimensions—Same as Plate W-570.
As described \$

Plate W-571 does not have a depressed soap dish.

THE center standard forms a substantial support for the lavatory, supplementing the wall hanger, and giving the fixture an appearance of solidity. It is easy to install, is quickly cleaned, and stands well back out of the way.

Plate W-568. Hajoca No. 224-5 "Priscilla" porcelain enameled round front apron lavatory with 8-inch back and concealed wall hanger, No. 20 waste with china knob, No. 20 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 44 trap to wall.

Dimensions—Lavatory, 21 x 18 inches; basin, $14\frac{1}{2}$ x $10\frac{1}{4}$ inches.
As described \$

SUCH practical features as china handles on basin faucets and china knob on waste are in keeping with the present tendency to eliminate as far as possible unnecessary metal surfaces to be cleaned and polished in household work.

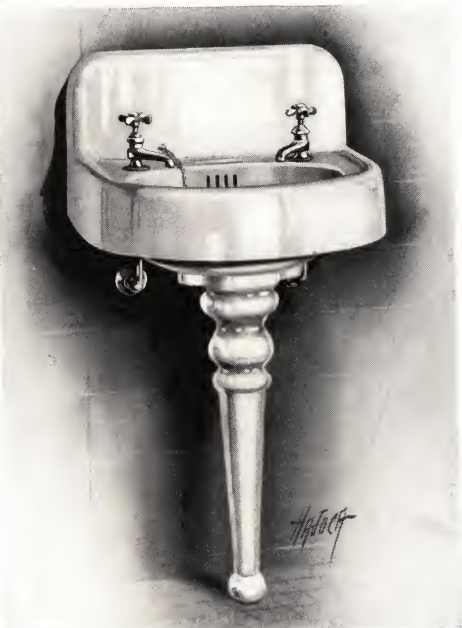


Plate W-570

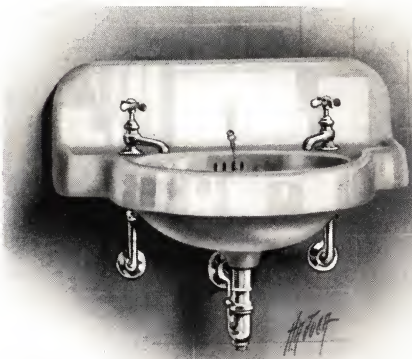


Plate W-572

Plate W-574. Hajoca No. 324 porcelain enameled round front lavatory with back and overflow, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 33 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 45 trap to wall.

Sizes, inches	Basin, inches	As described
19 x 17 x 6	15 x 10 $\frac{1}{2}$	\$
21 x 18 x 8	14 $\frac{1}{2}$ x 10 $\frac{1}{2}$	\$

A depressed integral soap dish is furnished with the 19 x 17 and 21 x 18 inch sizes.



Plate W-575

Plate W-572. Hajoca No. 326 "Narinda" porcelain enameled round front lavatory with 6-inch back and overflow, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Lavatory, 26 x 14 inches; basin, 16 x 10 inches.
As described.....\$

WHERE space saving is necessary the "Narinda" has proved an unusually satisfactory design. It has an ample bowl moulded to take up the least room. The lavatory requires only 26 x 14 inches of space and is therefore, suitable for small bathrooms, coat rooms, compartments under stairs, etc.

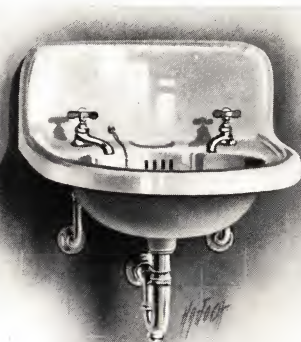


Plate W-574

Plate W-575. Hajoca No. 324 porcelain enameled round front lavatory with 5-inch back and overflow, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 33 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 45 trap to wall.

Dimensions—Lavatory, 16 x 14 inches; basin, 11 inches in diameter.

As described.....\$



Plate W-580

Plate W-580. Hajoca No. 262-3 porcelain enameled corner apron lavatory with 10-inch backs and large overflow and concealed wall hangers, nickel-plated No. 10 lifting-plug waste with china lever and overflow strainer, No. 15 compression basin faucets with No. 12-C all china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes and $1\frac{1}{2}$ -inch No. 10 trap to floor.

Dimensions—Length of sides, 20 inches; basin, 15 x 12 inches.

As described \$

Plate W-580 is thoroly modern and sanitary in its equipment. The Hajoca No. 10 waste is the same as that used with our Vitreo lavatories, (see page 80). The user has the benefit of perfectly clean water every time the basin is filled, as there are no concealed waste pipes with which the water in the bowl may come in contact.

Plate W-582. Hajoca No. 262 porcelain enameled corner apron lavatory with backs, overflow and concealed wall hangers, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to floor and $1\frac{1}{4}$ -inch Hajoca No. 22 trap to floor.

Length of sides, inches.	16	19	20
Height of back, inches.	6	8	10
Size of basin, inches.	14 x 11	15 x 10 $\frac{1}{2}$	15 x 11 $\frac{1}{2}$
As described \$	\$	\$	

A depressed integral soap dish is furnished with the 16 and 19 inch sizes.

Plate W-583 (not illustrated) Hajoca No. 262-5 lavatory as above except with No. 20 waste with china knob in place of plug, etc., other fittings and sizes as described. Add extra for No. 20 waste with china knob, \$



Plate W-582

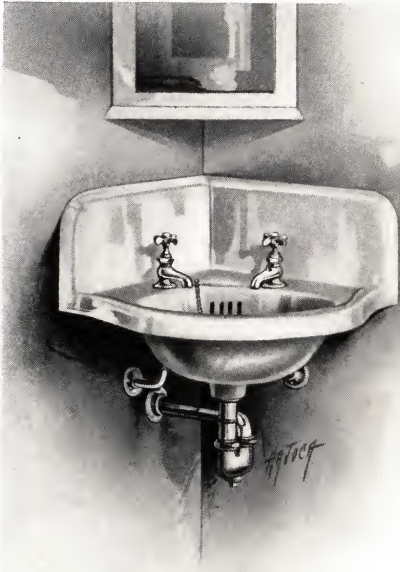


Plate W-584

Plate W-586. Hajoca No. 362 porcelain enameled corner lavatory with backs and overflow, concealed wall hangers, nickel-plated plug, chain and chain ring, No. 33 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to floor and $1\frac{1}{4}$ -inch Hajoca No. 45 trap to floor.

Length of sides, inches.... 16 16
 Height of back, inches.... 5 6
 Size of basin, inches..... 11 14 x 11
 As described..... \$ \$

A depressed integral soap dish is furnished with the size having the 14 x 11-inch basin.

Plate W-587 (not illustrated) Hajoca No. 362-5 lavatory as above except with No. 20 waste with china knob in place of plug, etc., other fittings as described.

Dimensions—Length of sides, 16 inches; height of back, 6 inches; size of basin, 14 x 11 inches.

As described.....\$

Plate W-584. Hajoca No. 362 porcelain enameled corner lavatory with 8-inch backs and overflow, concealed wall hangers, nickel-plated plug, chain and chain ring, No. 20 compression basin faucets with No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length of sides, 19 inches; basin, $14\frac{1}{2}$ x $10\frac{1}{2}$ inches.

As described.....\$

A depressed integral soap dish is furnished with the above.

Plate W-585 (not illustrated). Hajoca No. 362-5 lavatory as above except with No. 20 waste with china knob in place of plug, etc., other fittings as described.

Dimensions—Same as Plate W-584
 As described.....\$

The No. 362-5 lavatory does not have a depressed soap dish.



Plate W-586

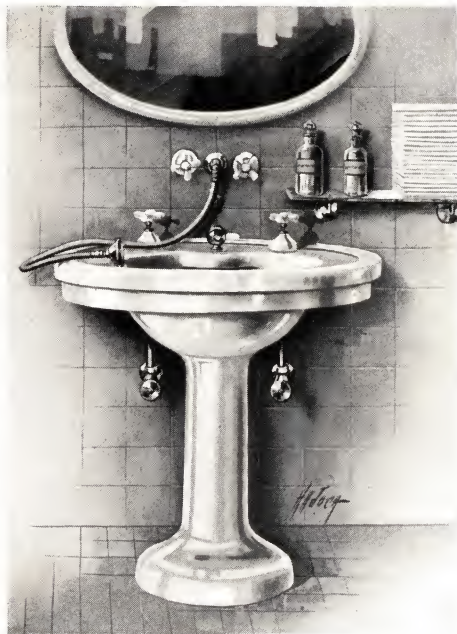


Plate W-600

Plate W-606. Hajoca No. 232 "Marion" porcelain enameled apron lavatory with back and overflow, porcelain enameled center standard, concealed wall hanger, nickel-plated plug, chain and chain ring, No. 10 compression combination basin and shampoo supply faucet with No. 3-C china index handles, rubber tubing and rubber-bound sprinkler, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

THE No. 10 compression combination basin and shampoo supply faucet provides a satisfactory arrangement for use on lavatories which cannot be equipped with combination supply fittings concealed underneath the slab. The handles control the temperature and volume of the water which may be directed as desired to the basin or shampoo.

Plate W-600. Hajoca No. 415-2 "Ovalton" Vitreo china oval lavatory with large concealed overflow and anti-splash rim, with No. 403 Vitreo china pedestal, nickel-plated wall supports, No. 10 lifting-plug waste with china lever, compression supply fittings with concealed nozzle, No. 12-C all china index handles, china base flanges, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops, $1\frac{1}{2}$ -inch No. 10 trap to wall and No. 24 compression combination faucet concealed in wall with No. 12-C all china index handles, china base flanges, nozzle with hose connection, rubber tubing, rubber-bound shampoo sprinkler and sprinkler holder.

Dimensions—Lavatory, 30 x 24 inches; basin, 17 x 12 inches.

As described \$

THE handles of the No. 24 double compression combination faucet control the temperature as well as the volume admitted to the spray. The working parts of the valves can be removed from in front when necessary for rewashing.

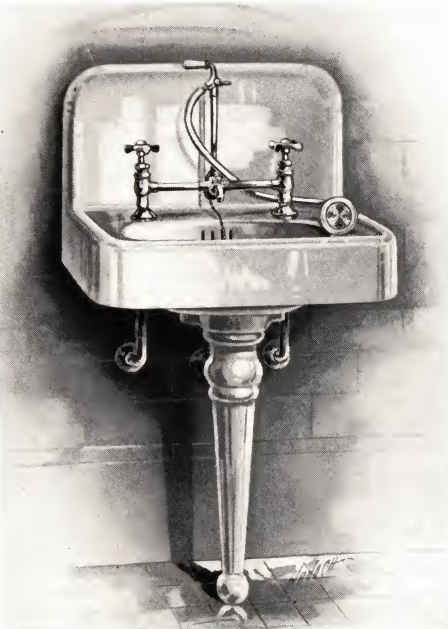


Plate W-606

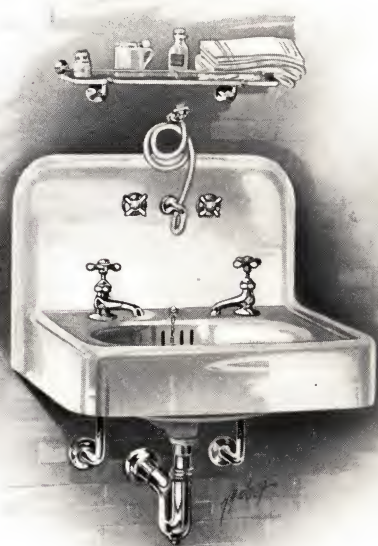


Plate W-608

Plate W-610. Hajoca No. 431
"Adelphia" Vitreo china dressing table,
 Vitreo china legs and nickel-plated wall
 supports.

Dimensions—Length, 30 inches;
 width, 18 inches.

As described \$

THE "Adelphia" dressing table
 harmonizes in design with our Vitreo
 china lavatories and is made of the
 same high grade material. It has a
 beautiful white gloss impervious sur-
 face.

For descriptions and illustrations of
 mirrors and chair, see Plates W-984
 and W-991.

Plate W-608. Hajoca No. 232
"Marion" porcelain enameled apron
 lavatory with back and overflow, con-
 cealed wall hanger, nickel-plated plug,
 chain and chain ring, No. 20 compres-
 sion basin faucets with No. 3-C china
 index handles, No. 23 compression
 combination faucet with No. 3-C china
 index handles, nozzle with hose con-
 nection, rubber tubing, rubber-bound
 shampoo sprinkler and sprinkler holder,
 $\frac{3}{8}$ -inch iron pipe weight supply pipes
 to wall and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	Basin, inches	As described
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 13	\$

THE arrangement in Plate W-608 is
 especially desirable where space is
 limited and the lavatory is used both
 for wash-up and shampoo purposes.
 With the No. 23 compression combina-
 tion faucet the operator has control
 over both the temperature and the
 volume of water being drawn thru
 the shampoo.



Plate W-610



Plate W-612

Hajoca Vitreo china manicure table with center bowl, supply inlet and overflow, Vitreo china leg, nickel-plated wall supports, lifting-plug waste with No. 12-C all china handle, compression supply fittings with No. 12-C all china index handles, supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length, 32 inches; width, 18 inches; diameter of bowl, 6 inches.
As described.....\$

Mirror, shelf, chairs and basket for soiled towels, extra.

MANICURE tables are now regarded as an essential part of the equipment of every first-class barber shop, hair-dressing establishment and manicure parlor. The fixture shown is made of our Vitreo china, presenting a handsome appearance with its rich white glazed surface. The fittings controlling the hot and cold water supply and waste are placed underneath, and near the wall, where they are out of the way and yet easily accessible for the operator.



Plate W-614

Plate W-614. Hajoca No. 474 "Adelphia" Vitreo china flushing rim dental lavatory with 6-inch back, concealed wall hangers, nickel-plated outlet strainer, compression supply fittings with goose neck nozzle, No. 3-C china index handles, $\frac{3}{8}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Lavatory, 14 x 13 inches; basin, 9 x 7 inches.

As described. \$

FOR bath and toilet rooms there is a growing demand for a separate dental basin to be used when cleansing the teeth. To meet this requirement we offer our Hajoca No. 474 "Adelphia" lavatory. In the home or the private baths of hotels, one of these lavatories is recommended for each bathroom; while in the large public toilet rooms of hospitals, dormitories, sleeping cars,

steamships, etc., one dental bowl will be found sufficient for every three or four wash bowls. The flushing rim of the Hajoca No. 474 dental lavatory thoroly rinses the interior of the bowl every time the water is turned on.

Plate W-616. Hajoca Vitreo china flushing rim spitting receptor, back inlet and bottom outlet, with nickel-plated outlet strainer, push button flushing valve with china index and flange.

Dimensions—Left to right, $9\frac{1}{2}$ inches; top to bottom, 9 inches; depth, $5\frac{1}{2}$ inches.

As described. \$

THIS is an indispensable fixture for swimming pools, indoor running tracks, gymnasiums, etc. The fixture should be tiled into the wall in accessible locations; the flushing rim along with the copious supply of water from our push button flush valve insures a thoro and easy cleansing of the fixture.

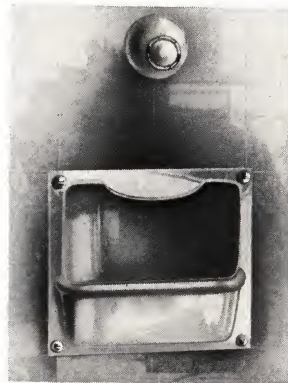


Plate W-616



Plate W-624

Hajoca No. 623 "Victory" Regal porcelain round front lavatories with countersunk overflows and integral soap dishes; painted cast iron standards and frames for supporting lavatories in double batteries back to back, each lavatory with nickel-plated overflow grate, plug and chain and No. 71 self-closing basin faucets with china indexed Easy-grip handles (1½-inch double continuous waste and 1½-inch No. 22 trap to floor extra).

Dimensions—Lavatory, 20 x 20 inches; basin, 14 x 11½ inches.

Floor space of not less than 44 x 44 inches should be allowed for the installation of 2 double section lavatories as shown above.

	Set of 2 double section lavatories (4 bowls) as shown	Each additional double section (2 bowls)
As described	\$	\$
For 1½-inch nickel-plated double continuous waste with 1½-inch No. 22 trap as shown, add	\$	\$

THIS lavatory is a good practical design for the severe service conditions in factory washrooms. The Regal porcelain bowls are massive and strong with a high glossy impervious surface which can be kept clean and inviting with little work. The open spaces between lavatories at the side and back give plenty of elbow room. Waste of water can be prevented by equipping the lavatories with the Hajoca No. 71 self-closing basin faucets which shut off the water the instant the handles are released.

The washrooms of the Victor Talking Machine Co., Camden, N. J., are equipped with this type of lavatory.

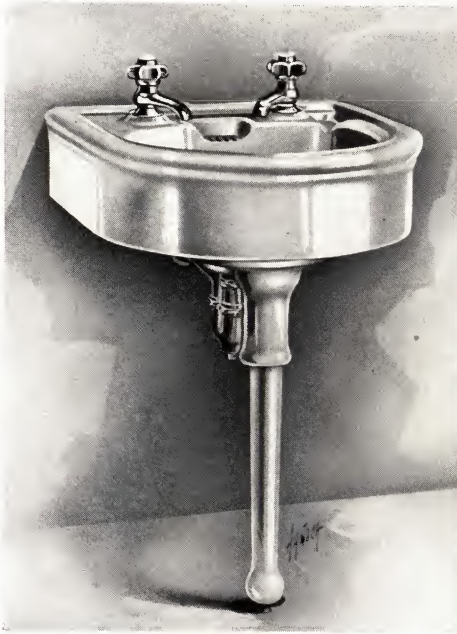


Plate W-625

Plate W-625. Hajoca No. 623
 "Victory" Regal porcelain round front lavatory with countersunk overflow and integral soap dish, porcelain enameled center standard and iron flanged wall bolts, nickel-plated overflow grate, plug and chain, No. 71 self-closing basin faucets with china indexed Easy-grip handles and 1 1/4-inch No. 22 trap to wall.

Dimensions—Lavatory, 20 x 20 inches; basin, 14 x 11 1/2 inches.
 As described \$
 Same, with painted center standard \$

EQUIPPED with the center standard the "Victory" lavatory makes an excellent design for installation against the wall. The standard affords substantial support and is well back from the front and out of the way.

The unit lavatory is in keeping with the best sanitary practice recommended for the modern industrial plant. It prevents spread of contagious diseases and provides the quick and clean way of washing-up.



Plate W-626

Victor Talking Machine Co., Camden, N. J.
 Equipped with Victory Lavatories and Hajoca Plumbing

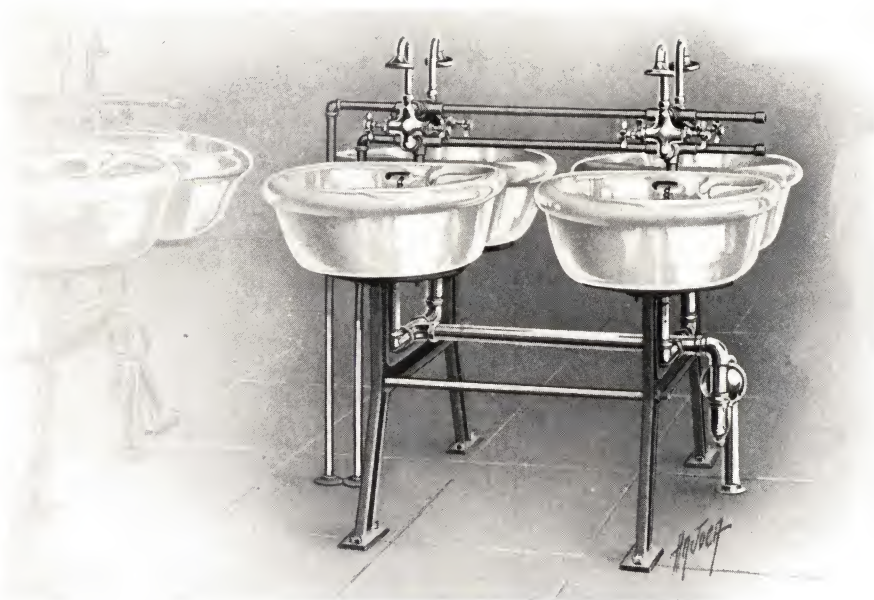


Plate W-628

Hajoca No. 659 "Stafford" Regal porcelain round front deep lavatories with open overflows and integral soap dishes, painted cast iron standards and frames for supporting lavatories in double batteries back to back with double connections for faucets, each lavatory with nickel-plated plug and chain, compression double wash sink faucet with goose-neck nozzle, cast brass removable rose spray and No. 3-C china index handles (galvanized supply pipes and 1½-inch double continuous waste with No. 10 trap to floor, extra).

Dimensions—Lavatory, 21 x 18 inches.

Floor space of not less than 44 x 44 inches should be allowed for the installation of 2 double section lavatories as shown above.

	Set of 2 double section lavatories (4 bowls) as shown	Each additional double section (2 bowls)
As described	\$	\$
For 1½-inch nickel-plated double continuous waste with 1½-inch No. 10 trap as shown, add	\$	\$

THE compression double wash sink faucet enables the user to wash in running water tempered to suit personal likes; the rose spray makes rinsing of the head, neck and arms quick and easy—a most desirable feature where people like to wash as thoroly as possible in the least time.

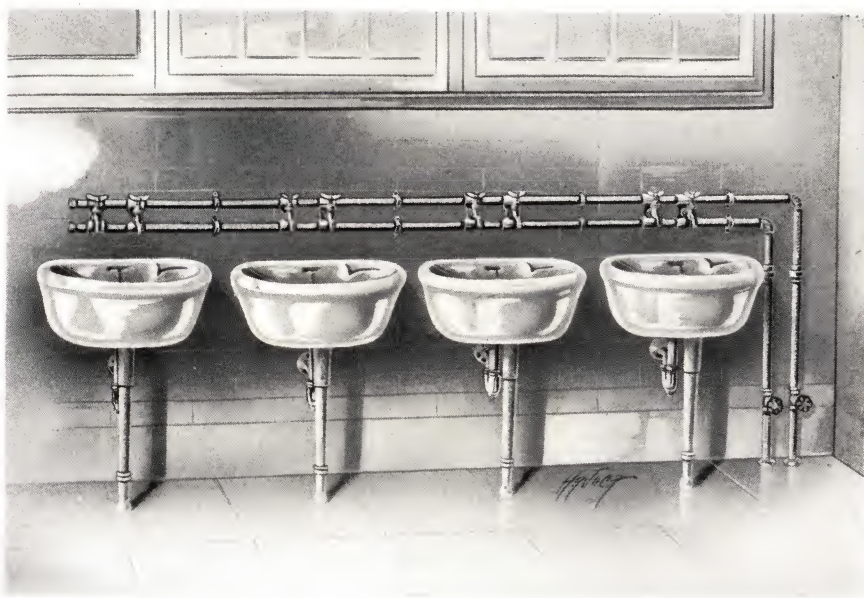


Plate W-629

Hajoca No. 659 "Stafford" Regal porcelain round front deep lavatories with open overflows and integral soap dishes, painted iron center standards with wall frames, each lavatory with nickel-plated plug and chain, $\frac{1}{2}$ -inch No. 20 compression sink faucets and brass double supply fittings and $1\frac{1}{4}$ -inch No. 22 trap to wall (galvanized supply pipes with unions and stops, extra).

Dimensions—Lavatory, 21 x 18 inches.

	Set of 4 lavatories as shown	Each additional lavatory
As described	\$	\$

When desired lavatories can be furnished with continuous waste and trap instead of individual traps.

THESE lavatories are recommended for use in factories, etc., and provide a separate basin for each workman. If preferred, they can be equipped with cold water fittings only, or with a single supply pipe with separate discharge nozzles over each basin, the water being turned on by an attendant just before the noon and evening closing hours, or the supply can be controlled by the Leonard thermostat mixing valve giving a copious supply of tempered water at a predetermined temperature, preventing accidental scalding. For description of the Leonard thermostat mixing valve, see pages 31 and 73.

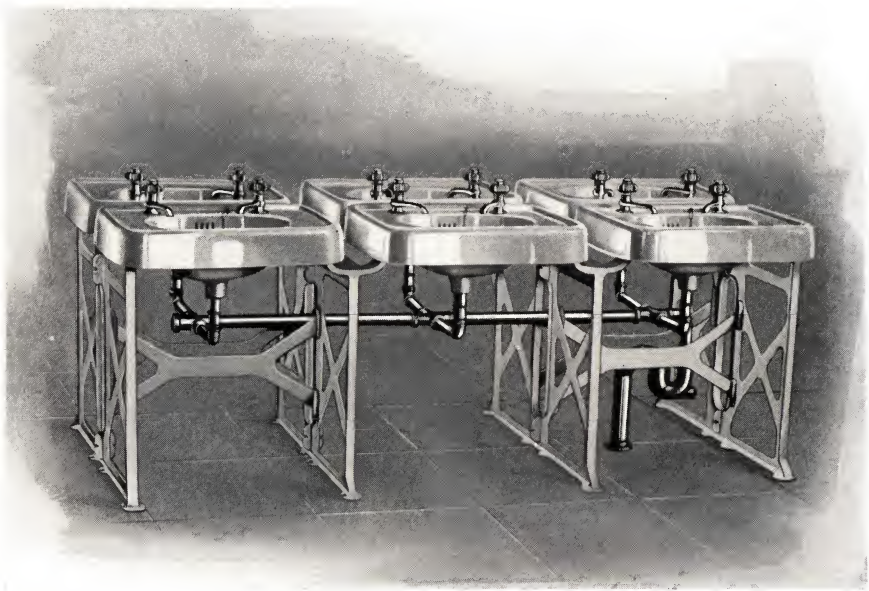


Plate W-630

Hajoca No. 231 "Puritan" porcelain enameled straight front lavatories with aprons and overflows, painted iron brackets to floor for supporting lavatories in double batteries back to back, nickel-plated plugs, chains and chain rings, No. 71 self-closing basin faucets with china indexed Easy-grip handles (1½-inch double continuous waste with 2-inch No. 22 trap to floor, extra).

Size of each lavatory, inches	24 x 18	24 x 20	27 x 22
Size of each basin, inches	16 x 10½	15 x 12	17 x 13
Set of 3 double section lavatories (6 bowls) as shown and described	\$	\$	\$
Each additional double section (2 bowls)	\$	\$	\$
For 1½-inch double continuous waste with 2-inch No. 22 trap to floor for 3 double sections, add	\$		
For 1½-inch double continuous waste for each additional double section, add . . .	\$		

THE iron brackets are simple in construction, insuring quick and ready installation. The space between lavatories gives the washer plenty of elbow room and prevents the water from one bowl spilling into the next, and it also makes cleaning an easy matter. These lavatories can be installed in any number of double sections from a minimum of one double section up to any maximum number required.



Plate W-631

Hajoca No. 231 "Puritan" porcelain enameled straight front lavatories with aprons and overflows, painted iron brackets to floor for supporting lavatories in single batteries, nickel-plated plugs, chains and chain rings, No. 20 compression basin faucets with No. 3-C china index handles and 1½-inch No. 32 traps to wall.

Size of each lavatory, inches.	24 x 18	24 x 20	27 x 22
Size of each basin, inches.	16 x 10½	15 x 12	17 x 13
Set of 3 single section lavatories, as described.	\$	\$	\$
For each additional single section, as described.	\$	\$	\$

THESE lavatories are the same as shown on the opposite page, except that they are in a single battery and suitable for installation against the wall. The slab, bowl and apron of each lavatory are in one piece; there are no crevices or connecting strips to harbor dirt or grime. Such unit fixtures conform with the best sanitary practices prevailing in modern industrial plants and are recommended by sanitarians as one of the means to prevent the spread of contagious diseases.

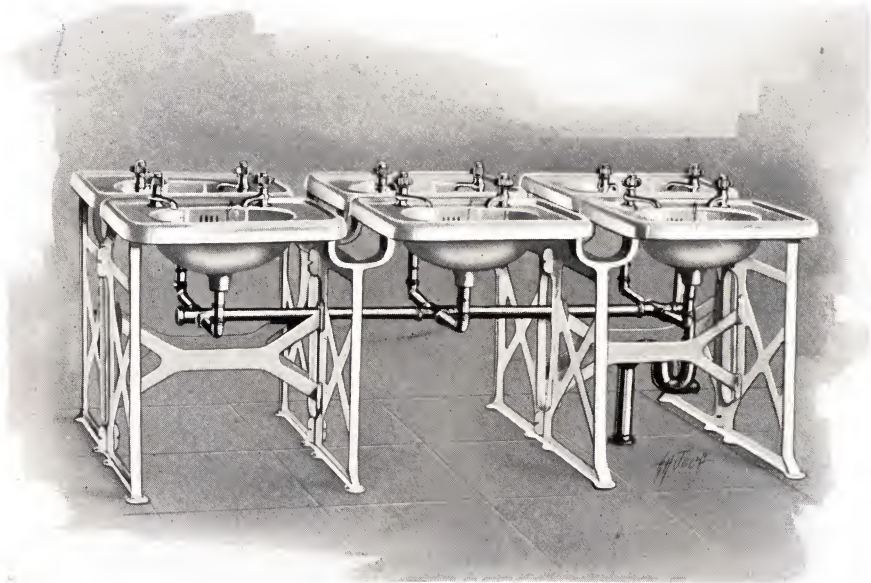


Plate W-632

Hajoca No. 331 "Garden City" porcelain enameled straight front lavatories with roll rims and overflows, painted iron brackets to floor for supporting lavatories in double batteries, back to back, nickel-plated plugs, chains and chain rings, No. 71 self-closing basin faucets with china indexed Easy-grip handles ($1\frac{1}{2}$ -inch double continuous waste with 2-inch No. 22 trap to floor, extra).

Size of each lavatory, inches.....	20 x 16	24 x 18
Size of each basin, inches.....	14 x $10\frac{1}{2}$	16 x $10\frac{1}{2}$
Set of 3 double section lavatories (6 bowls) as shown and described.....	\$	\$
Each additional double section (2 bowls)	\$	\$
For $1\frac{1}{2}$ -inch double continuous waste with 2-inch No. 22 trap to floor for 3 double sections, add.....	\$	\$
For $1\frac{1}{2}$ -inch double continuous waste for each additional double section, add.....	\$	\$

THESE lavatories can be installed in any number of double sections from a minimum of one double section up to any maximum number required.



Plate W-633

Hajoca No. 331 "Garden City" porcelain enameled straight front lavatories with roll rims and overflows, painted iron brackets to floor for supporting lavatories in single batteries, nickel-plated plugs, chains and chain rings, No. 20 compression basin faucets with No. 3-C chain index handles and 1½-inch No. 32 traps to wall.

Size of each lavatory, inches	20 x 16	24 x 18
Size of each basin, inches	14 x 10½	16 x 10½
Set of 3 single section lavatories, as described	\$	\$
For each additional single section, as described	\$	\$

THESE lavatories are the same as shown on the opposite page, except that they are in a single battery and suitable for installation against the wall. The brackets afford substantial support for the lavatories and are easily set up. There are no hidden spaces to become dirty, and the lavatories with the supporting brackets can be kept clean and inviting with little care and attention. Hajoca brass work adds the crowning feature of lasting durability to these modern, practical lavatories.

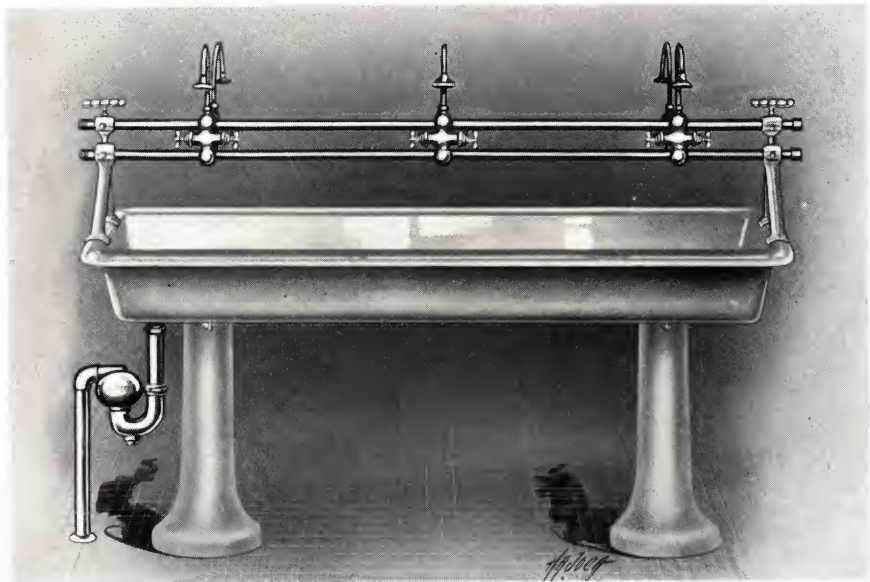


Plate W-638

Hajoca "Burnham" porcelain enameled all roll rim wash sink with end outlet, painted iron pedestals, $\frac{3}{4}$ -inch brass supply pipes with fittings for hot and cold water on supports over center of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with high goose-neck nozzles, cast brass removable rose sprays and No. 3-C china index handles and $1\frac{1}{2}$ -inch No. 10 trap to floor.

Dimensions—Width over all, 30 inches; height from floor to top of rim, 31 inches.

Length, feet	4	5	6
As described	\$	\$	\$

Four faucets are furnished with the 4-foot sink and six faucets with the 5 and 6-foot sinks.

When desired, an open strainer can be furnished instead of the standing waste.

THO a number of people may use this fixture at the same time, thus conserving space and equipment, each user can draw and wash in water tempered to personal likes and need not touch a drop of water drawn by another user. The rose spray makes rinsing of the hands, arms, face, etc., quick and easy—a feature much desired when washing up at the end of the day.

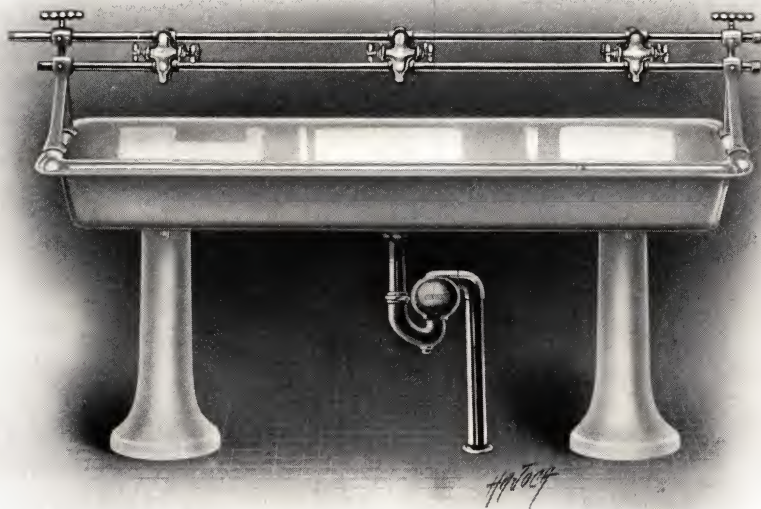


Plate W-640

Hajoca "Burnham" porcelain enameled all roll rim wash sink with center outlet, painted iron pedestals, $\frac{3}{4}$ -inch brass supply pipes with fittings for hot and cold water on supports over center of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with No. 3-C china index handles and $1\frac{1}{2}$ -inch No. 10 trap to floor.

Dimensions—Width over all, 30 inches; height from floor to top of rim, 31 inches.

Length, feet.....	4	5	6
As described.....	\$	\$	\$

Four faucets are furnished with the 4-foot sink and six faucets with the 5 and 6-foot sinks.

When desired, an open strainer can be furnished instead of the standing waste.

Plate W-641 (not illustrated). **Hajoca "Reynolds"** porcelain enameled all roll rim wash sink with center outlet, painted iron adjustable pedestals, $\frac{3}{4}$ -inch brass supply pipes with fittings for hot and cold water on supports over center of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with No. 3-C china index handles and $1\frac{1}{2}$ -inch No. 10 trap to floor.

Dimensions—Width over all, 27 inches; sinks can be furnished to measure 26 or 31 inches from floor to top of rim. When ordering, specify the height wanted.

Length, feet.....	3	4	5	6
As described.....	\$	\$	\$	\$

Four faucets are furnished with the 3 and 4-foot sinks and six faucets with the 5 and 6-foot sinks.

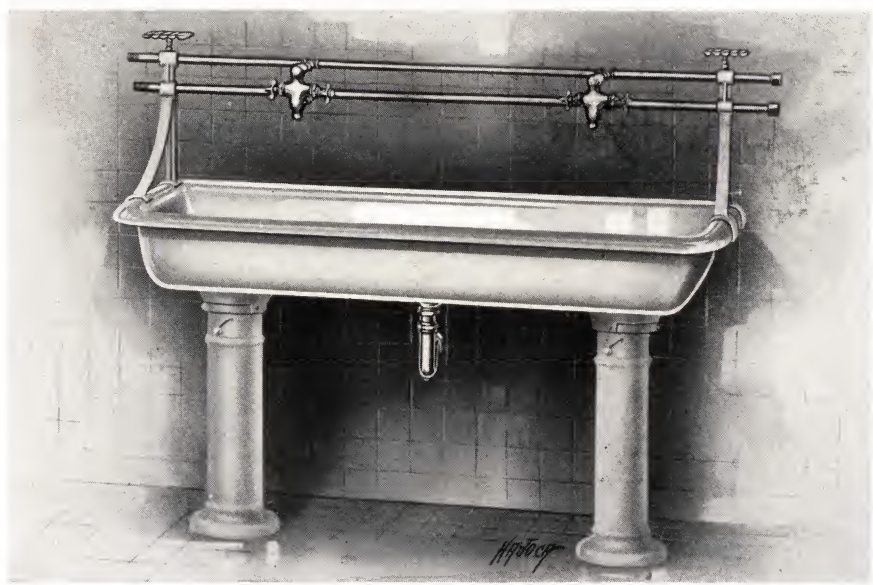


Plate W-642

Hajoca porcelain enameled all roll rim wash sink with center outlet, painted iron adjustable pedestals, 3/4-inch brass supply pipes with fittings for hot and cold water on supports over back of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with No. 3-C china index handles and 1 1/2-inch No. 32 trap to wall.

Length, feet.....	3	4	5	6
18 inches wide, as described.....	\$	\$	\$	\$
24 inches wide, as described.....	\$	\$	\$	\$

Two faucets are furnished with the 3 and 4-foot sinks and three faucets with the 5 and 6-foot sinks.

Sinks can be furnished to measure 26 or 31 inches from floor to top of rim. When ordering, specify the height wanted.

When desired, an open strainer can be furnished instead of the standing waste.

THE double wash sink faucet enables each user to wash in running water tempered to personal likes. With this sink equipped with an open strainer the individual need not use a drop of water that has been touched by another user.

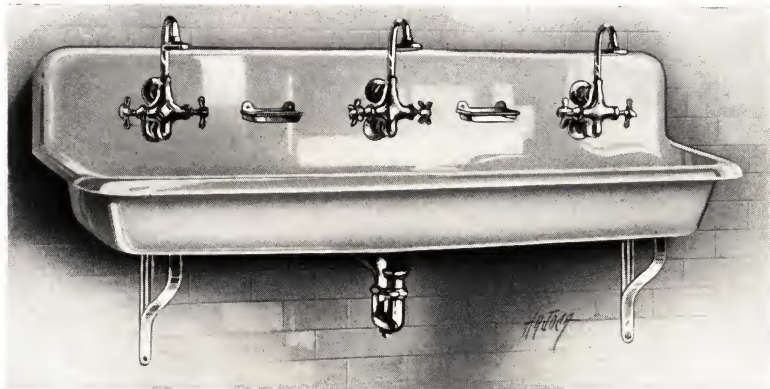


Plate W-644

Hajoca porcelain enameled roll rim wash sink with 8-inch back and center outlet, painted brackets, nickel-plated soap cups, open standing waste, No. 20 compression flanged double wash sink faucets, with high goose-neck nozzles, cast brass removable rose sprays and No. 3-C china index handles and 1½-inch No. 22 trap to wall.

Dimensions—Width over all, 18 inches; width inside, 13¼ inches.

Length, feet.....	3	4	5	6
As described.....	\$	\$	\$	\$

Two faucets and one soap cup are furnished with the 3 and 4-foot sinks and three faucets and two soap cups with the 5 and 6-foot sinks.

The above wash sinks can also be furnished with single ½-inch No. 20 compression flanged faucets instead of the No. 20 compression double wash sink faucets.



Plate W-646

Hajoca porcelain enameled roll rim sectional wash sink with 12-inch separate back, painted brackets, nickel-plated soap cups, open standing waste, ½-inch No. 20 compression flanged faucets. (1½ or 2-inch No. 22 trap to wall, extra).

Dimensions—Width over all, 18 inches; width inside, 14 inches.

Length, feet.....	8	10	12	14	15	16	18
Number of faucets....	5	6	6	8	9	8	10
As described.....	\$	\$	\$	\$	\$	\$	\$
Length, feet.....	20	22	24	25	26	28	30
Number of faucets....	10	13	14	14	14	16	16
As described.....	\$	\$	\$	\$	\$	\$	\$

Longer lengths can be furnished; full information will be sent upon request.

Plate W-646 can also be furnished with brackets to the floor, as shown Plate W-654, at an additional charge. On sinks 26 to 30 feet in length two outlets and two traps are furnished.

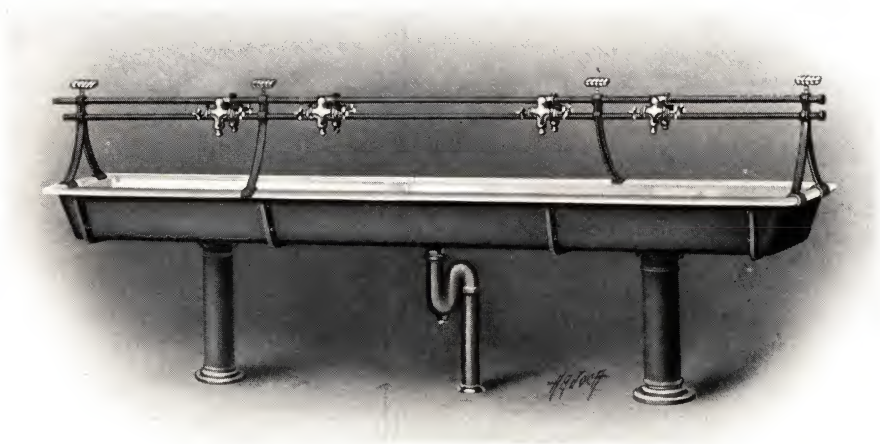


Plate W-648

Hajoca "Lehigh" porcelain enameled all roll rim sectional wash sink with center outlet, painted iron pedestals, $\frac{3}{4}$ -inch brass supply pipes with fittings for hot and cold water on supports over center of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with No. 3-C china index handles and 2-inch No. 945 painted cast iron trap to floor.

Width of sink, 27 inches

Length, feet.	7	8	9	10	11	12	13	14	15	16	17	18
No. of faucets. . . .	8	8	8	8	12	12	12	12	14	16	16	16
As described.	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Length, feet.	19	20	21	22	23	24	25	26	27	28	29	30
No. of faucets. . . .	16	20	20	20	22	24	24	26	26	28	28	30
As described.	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

Sinks can be furnished to measure 26 or 31 inches from floor to top of rim. When ordering, specify the height wanted.

Lengths 26 to 30 feet are furnished with two outlets and two traps.

When desired, an open strainer can be furnished instead of the standing waste.

THE "Lehigh" wash sink commends itself for accommodating a large number of users. The number of lengths obtainable permits of selections for almost limitless requirements. The users enjoy the hygienic advantages of washing in tempered running water.

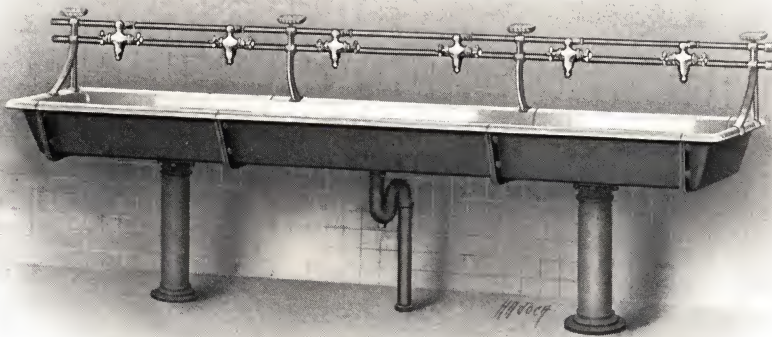


Plate W-650

Hajoca "Lehigh" porcelain enameled all roll rim sectional wash sink with center outlet, painted iron pedestals, $\frac{3}{4}$ -inch brass supply pipes with fittings for hot and cold water on supports over back of sink, nickel-plated soap cups, open standing waste, No. 20 compression double wash sink faucets with No. 3-C china index handles and 2-inch No. 945 painted cast iron trap to floor.

Length, feet.....	7	8	9	10	11	12	13	14	15	16	17	18
No. of faucets....	4	4	4	4	6	6	6	6	7	8	8	8
18 inches wide....\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
24 inches wide....\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Length, feet.....	19	20	21	22	23	24	25	26	27	28	29	30
No. of faucets....	8	10	10	10	11	12	12	13	13	14	14	15
18 inches wide....\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
24 inches wide....\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$

Sinks can be furnished to measure 26 or 31 inches from floor to top of rim. When ordering, specify the height wanted.

Lengths 26 to 30 feet are furnished with two outlets and two traps.

When desired, an open strainer can be furnished instead of the standing waste.

THE "Lehigh" wash sinks in the 18 and 24-inch widths are suitable for installing against the wall. The pedestals afford ample support and stability.

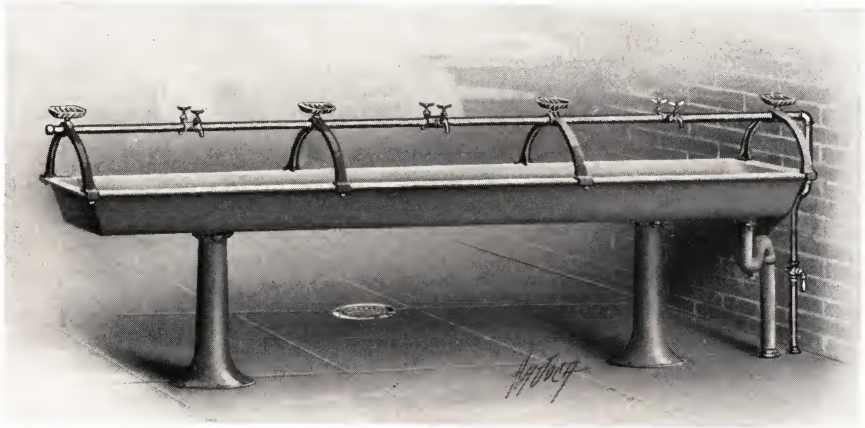


Plate W-652

Hajoca extra heavy flat rim wash sink with end outlet, painted iron pedestals, with $\frac{3}{4}$ -inch galvanized supply pipe for cold water on iron supports over center of sink, nickel-plated soap cups, open standing waste, $\frac{1}{2}$ -inch No. 20 polished brass compression faucets and 2-inch No. 945 painted cast iron trap to floor.

Dimensions—Width over rim, 24 inches; depth inside, 6 inches.

Length, feet	4	5	6	7	8	9	10
Number of faucets	4	6	6	6	6	6	6
As described, enameled inside	\$	\$	\$	—	—	—	—
As described, painted inside	\$	\$	\$	\$	\$	\$	\$

THE above sink can be furnished with supports for two supply pipes when hot and cold water are to be supplied. The single supply line can also be fed with water at a pre-determined temperature from the Leonard thermostat mixing valve, and in this way means are provided for the users to wash in warm water without any possibility of scalding. For description of the Leonard thermostat mixing valve, see pages 31 and 73.



Plate W-653

Hajoca extra heavy flat rim wash sink with end outlet, painted iron pedestals, $\frac{3}{4}$ -inch galvanized supply pipe for cold water on iron supports at back of sink, nickel-plated open standing waste, $\frac{1}{2}$ -inch No. 20 polished brass compression faucets and 2-inch No. 945 painted cast iron trap to floor.

Dimensions—Width over rim, 20 and 24 inches; depth, inside, 6 inches.

Length, feet	4	5	6	7	8	9	10
Number of faucets	2	4	4	4	6	6	6
20 inches wide, enameled inside	—	\$	\$	—	—	—	—
24 inches wide, enameled inside	\$	\$	\$	—	—	—	—
20 inches wide, painted inside	—	\$	\$	—	—	—	—
24 inches wide, painted inside	\$	\$	\$	\$	\$	\$	\$

The above sink can be furnished with supports for two supply pipes when hot and cold water are to be supplied. When desired, an open strainer can be furnished instead of the standing waste.

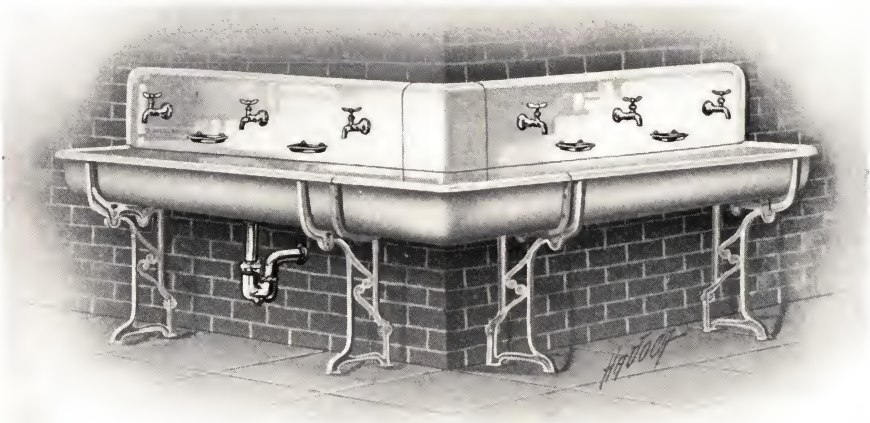


Plate W-654

Hajoca porcelain enameled roll rim sectional wash sink for outside corner, with separate back, painted iron brackets to floor, nickel-plated soap cups, open standing waste, $\frac{1}{2}$ -inch No. 20 compression flanged faucets and $1\frac{1}{2}$ -inch No. 22 trap to wall.

Dimensions—Width over all, 18 inches; width inside, 14 inches; height of back, 12 inches; length from front corner to each end, 7 feet.

As described\$

Longer lengths can be furnished and full information will be sent upon request.

When desired, an open strainer can be furnished instead of the standing waste.

IN the rush of washing up there is danger of men accidentally scalding themselves by drawing water too hot for the human touch. To prevent such accidents we recommend the use of the Leonard thermostat mixing valve. This device is illustrated and described on pages 31 and 73 and can be satisfactorily used with the sink illustrated above.

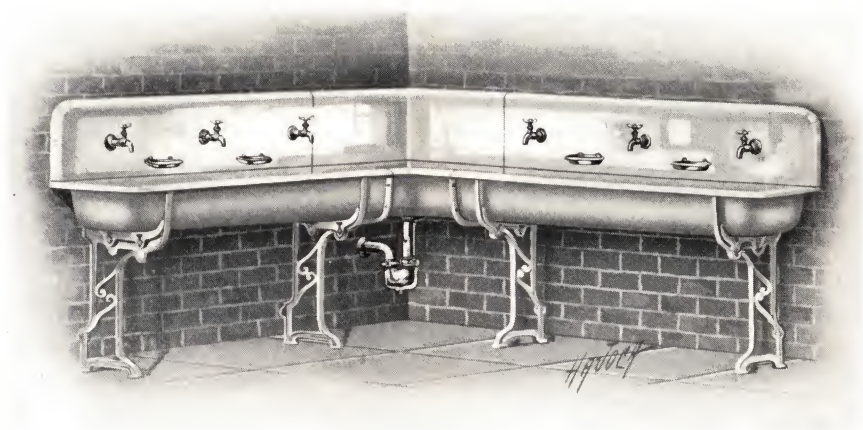


Plate W-655

Hajoca porcelain enameled roll rim sectional wash sink for inside corner, with separate backs, painted iron brackets to floor, nickel-plated soap cups, open standing waste, $\frac{1}{2}$ -inch No. 20 compression flanged faucets and $1\frac{1}{2}$ -inch No. 22 trap to wall.

Dimensions—Width over all, 18 inches; width inside, 14 inches; height of back, 12 inches: length from inside corner to each end, 7 feet.

As described \$

Longer lengths can be furnished and full information will be sent upon request.

When desired, an open strainer can be furnished instead of the standing waste.

WASH sinks equipped with open strainers discharge immediately all used water and prevent soiled dirty water from being used a second time.



Plate W-670

Hajoca No. 15 nickel-plated compression basin faucet with stuffing box and No. 12-C all china index handle, per pair . \$



Plate W-671

Hajoca No. 15 nickel-plated compression basin faucet with stuffing box and No. 3-C china index handle, per pair . \$



Plate W-674

Hajoca No. 20 nickel-plated compression basin faucet with No. 12-C all china index handle, per pair \$ 3.65



Plate W-675

Hajoca No. 20 nickel-plated compression basin faucet with No. 3-C china index handle, per pair \$ 5.35

FOR reputable quality, worthwhile service and low upkeep cost, Hajoca compression basin faucets have always been given the highest rating. The castings are heavy red metal, the machining is done with precision and the finish is a beautiful lustrous nickel with long wearing qualities and easily kept bright and attractive. The pitch and bearing of the threads are mechanically correct and the working parts are accurately fitted to prevent wear or lost motion.



Plate W-677

Hajoca No. 34 nickel-plated compression basin faucet with stuffing box and No. 12-C all china index handle, per pair.....\$



Plate W-678

Hajoca No. 34 nickel-plated compression basin faucet with stuffing box and No. 3-C china index handle, per pair..\$



Plate W-680

Hajoca No. 33 nickel-plated compression basin faucet with No. 12-C all china index handle, per pair.....\$ 2.80



Plate W-681

Hajoca No. 33 nickel-plated compression basin faucet with No. 3-C china index handle, per pair.....\$ 2.40

ATTENTION is directed to the excellent designs and balance of Hajoca basin faucets. All curves are extremely graceful and make cleaning and polishing easy work; there are no ridges or depressions to harbor dirt or grime. The caps are high and are carefully packed; the inconspicuous Hajoca stuffing boxes are rugged in their construction and have no dirt-catching crevices. As the final insurance against stem leakage, these boxes are inserted with a special lubricated packing of extreme durability.



Plate W-684

Hajoca No. 40 nickel-plated Quick basin faucet with china lever handle, per pair.....\$3.60



Plate W-688

Hajoca No. 43 nickel-plated Quick basin faucet with china lever handle, per pair.....\$2.80

HAJOCA Quick basin faucets are quick opening giving the full flow with less than a half turn. All styles of Hajoca basin faucets are carefully tested under heavy hydraulic pressure before shipment.



Plate W-692

Hajoca No. 71 nickel-plated self-closing basin faucet with china indexed Easy-grip handle, per pair.....\$6.10

Plate W-692 is recommended for public use or where water is limited or metered. The self-closing feature prevents waste.

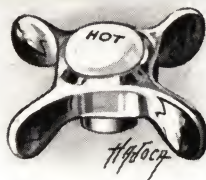


Plate W-693

Hajoca No. 3-C china index handle, nickel plated, per pair.....\$

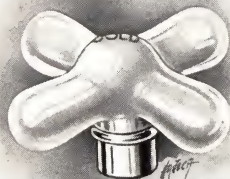


Plate W-694

Hajoca No. 12-C all china index handle, per pair.....\$

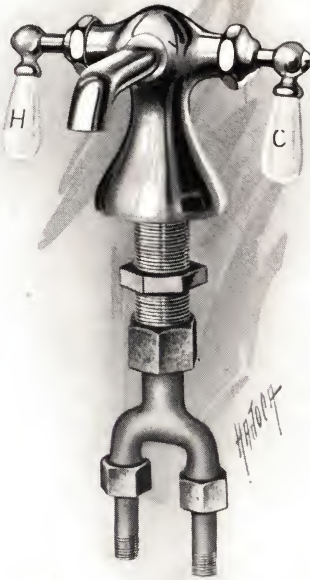


Plate W-695

Hajoca No. 44 nickel-plated Quick double basin faucet with china lever handles, each.....\$ 8.35

Plate W-695 fits into any single faucet hole and, therefore, permits the use of a mixer on any ordinary lavatory without requiring special drilling. With a liquid soap dispenser in the other faucet hole as shown on Plates W-557 and W-911 a distinctly practical arrangement is provided for offices, banks, public buildings and schools.



Plate W-696

Hajoca No. 44 nickel-plated Quick double shampoo faucet with china lever handles, rubber tubing and rubber-bound sprinkler, each.....\$

Plate W-696 fits the faucet hole on any lavatory. The lever handles are quick opening giving the supply of cold, tempered or hot water with less than a half turn.

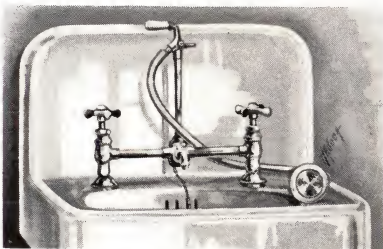


Plate W-698

Plate W-698. Hajoca No. 10 nickel-plated compression combination basin and shampoo supply faucet with No. 3-C china index handles, rubber tubing and rubber-bound sprinkler, each.....\$



Plate W-710

Plate W-711. Hajoca No. 20 nickel-plated compression double wash sink faucet with rose spray, No. 3-C china index handles and $\frac{1}{2}$ -inch couplings, outside thread, each.....\$



Plate W-711



Plate W-712

Plate W-712. Hajoca No. 20 nickel-plated compression double wash sink faucet with high goose-neck nozzle, rose spray, No. 3-C china index handles and $\frac{1}{2}$ -inch couplings, outside thread, each.....\$

THESE faucets are built for the severe requirements of factory work. The best features of Hajoca brass work have been embodied in the designs and working parts. The stream can be obtained with a quick turn of the handle, and the user draws from the one nozzle and washes in running cold, tempered or hot, according to likes.

The couplings are connected to either tees or crosses in horizontal runs of pipes.

Plate W-713. Hajoca No. 20 nickel-plated compression double wash sink faucet with inverted goose-neck nozzle, rose spray, No. 3-C china index handles and $\frac{1}{2}$ -inch couplings, outside thread, each.....\$

The couplings are connected to either tees or crosses in horizontal runs of pipe.



Plate W-713

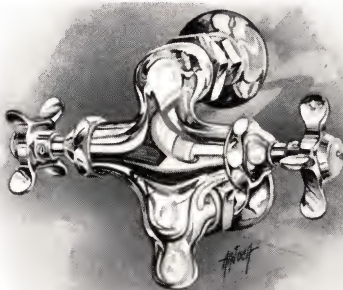


Plate W-714

Plate W-714. Hajoca No. 20 nickel-plated compression double wash sink faucet with No. 3-C china index handles and $\frac{1}{2}$ -inch flanged couplings, inside thread, each.....\$

Plate W-715. Hajoca No. 20 nickel-plated compression double wash sink faucet with high goose-neck nozzle, rose spray, No. 3-C china index handles, $\frac{1}{2}$ -inch flanged couplings, inside thread, each.....\$



Plate W-715

THE brass rose sprays throw a fine spray, assisting in a quick wash-up and rinse-off at the end of the day's work. Each user washes in a clean stream and contagion is avoided.

Plates W-714 and W-715, having flanged couplings, are used in connection with wash sinks with backs.

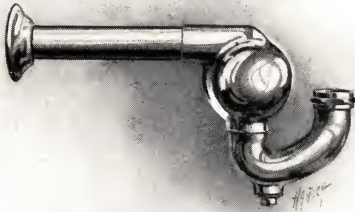


Plate W-750

Hajoca No. 10 nickel-plated cast brass non-syphoning trap with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches. $1\frac{1}{4}$ $1\frac{1}{2}$ 2
 Nickel-plated. \$ \$ \$

THE Hajoca No. 10 trap always retains a safe water seal which cannot be broken by syphoning. This has been repeatedly proved by various independent tests conducted by the Health Departments in many cities. These tests were severe, and the conditions under which they were made were far more rigid than are ever likely to be found in actual use. Upwards of sixty cities and towns have officially approved and accepted this trap either by special ordinance or by approval of the Health Department or Health Officer.

The large globe holds a greater volume of water than the ordinary trap and on this account its contents are slow to evaporate. The trap screw permits easy cleaning. The center screw joint allows latitude in roughing-in.

The non-syphoning and other desirable features of the Hajoca No. 10 traps commend them to the favorable consideration of the sanitarian and to all who desire to avoid the injurious effects of sewer gas. When properly connected up, they can be relied upon to positively prevent the ingress of sewer gas into the building. They are moderate in price, and cost far less than a system of "back-venting" pipes which will be found unnecessary when the Hajoca No. 10 non-syphoning traps are used.



Plate W-751

Hajoca No. 10 nickel-plated cast brass non-syphoning trap with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches. $1\frac{1}{4}$ $1\frac{1}{2}$ 2
 Nickel-plated. \$ \$ \$

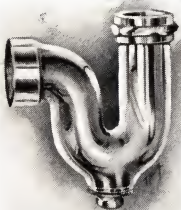


Plate W-752

Plate W-752. Hajoca No. 32 nickel-plated cast brass trap with outlet tapped for iron pipe and wall flange and slip joint nut on inlet.

Sizes, inches. $1\frac{1}{2}$ 2
 Each. \$ \$

$1\frac{1}{2}$ or 2-inch nickel-plated iron pipe weight nipples can be furnished for Plate W-752. When ordering, specify the length of nipples wanted.

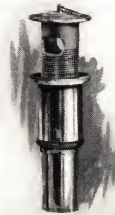


Plate W-753

Plate W-753 Hajoca nickel-plated P. O. plug and holder, for Vitreo china or porcelain enameled lavatories or separate basin, each \$

When ordering $1\frac{1}{2}$ and 2-inch traps, give outside diameter of coupling to which trap is to be attached, so that slip joint nut of proper size may be sent.

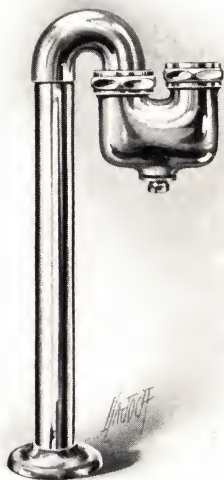


Plate W-755

Hajoca No. 22 nickel-plated cast brass trap with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2	2
Each.....	\$	\$	\$
Same with vent, each..	\$	\$	\$

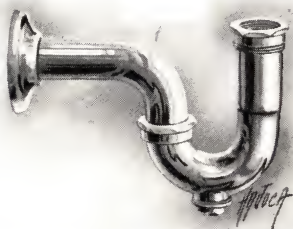


Plate W-760

Hajoca No. 45 nickel-plated No. 17 gauge tubing trap with cleanout, pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2
Each.....	\$	\$

Plate W-761 (not illustrated). Hajoca No. 44 nickel-plated tubing trap, no cleanout, with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2
Each.....	\$	\$
Same with vent, each....	\$	\$

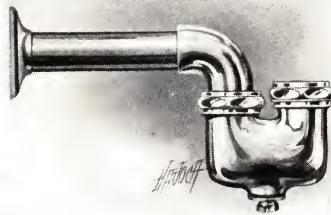


Plate W-756

Hajoca No. 22 nickel-plated cast brass trap with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2	2
Each.....	\$	\$	\$
Same with vent, each..	\$	\$	\$

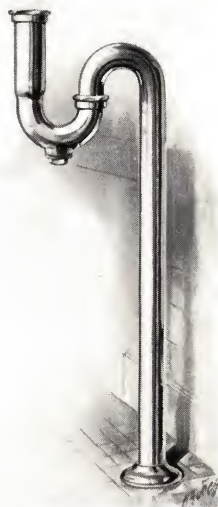


Plate W-762

Hajoca No. 45 nickel-plated No. 17 gauge tubing trap with cleanout, pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2
Each.....	\$	\$

Plate W-763 (not illustrated). Hajoca No. 44 nickel-plated tubing trap, no cleanout, with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/4	1 1/2
Each.....	\$	\$
Same with vent, each....	\$	\$

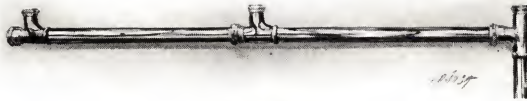


Plate W-766

Hajoca nickel-plated continuous waste with outlet at end and slip joint nuts on inlets.

Number of inlets.....	2	3	4	5	6
Size of run, 1½-inch.....	\$	\$	\$	\$	\$
Size of run, 2-inch.....	\$	\$	\$	\$	\$

Plate W-767 (not illustrated, see page 112). Hajoca nickel-plated double continuous waste with outlet at end and slip joint nuts on inlets.

Number of inlets.....	2 Pairs	3 Pairs	4 Pairs	5 Pairs	6 Pairs
Size of run, 1½-inch.....	\$	\$	\$	\$	\$
Size of run, 2-inch.....	\$	\$	\$	\$	\$



Plate W-768

Hajoca nickel-plated continuous waste with outlet in center and slip joint nuts on inlets.

Number of inlets.....	2	3	4	5	6
Size of run, 1½-inch.....	\$	\$	\$	\$	\$
Size of run, 2-inch.....	\$	\$	\$	\$	\$

When ordering continuous wastes, specify size of slip joint nuts wanted.

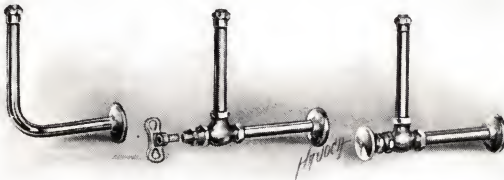


Plate W-770

Plate W-771

Plate W-772

Hajoca nickel-plated lavatory supply pipes, with sockets and flanges.

Size, inches.....	¾	¾	½
Gauge.....	No. 12	I. P. W.	I. P. W.
Plate W-770, bent, per pair.....	—	\$	—
Plate W-771, with loose key stop, per pair.....	—	\$	\$
Plate W-772, with wheel handle stop, per pair....	—	\$	\$
Plate W-776, per pair.....	\$	\$	\$
Plate W-777, with loose key stop, per pair.....	—	\$	\$
Plate W-778, with wheel handle stop, per pair....	—	\$	\$



Plate W-776

Plate W-777

Plate W-778

1 key is furnished with each pair of supply pipes having loose key stops.

HAJOCA DRINKING FOUNTAINS

PURE drinking water is a primal necessity. Common sense has always resented the idea of dispensing it from a common drinking cup with its deadly possibilities of disease and contagion.

Within recent years law-making bodies and Health Departments have recognized this and have enacted clear-cut laws and regulations for the elimination of the common drinking cup and the adoption and almost universal use of sanitary drinking fountains.

The sanitary drinking fountain performs a most important public service; for upon its successful operation depend the comfort and welfare of whole communities, the health and industrial efficiency of manufacturing plants and freedom from many mouth and throat diseases in schools, etc.

To cite the regulations of one state gives an idea of the sales possibilities for sanitary fountains in every state where the use of the common drinking cup is legally forbidden.

“Those responsible for establishing or conducting any public drinking place in the Commonwealth of Pennsylvania are hereby forbidden to furnish or permit others to furnish or keep any common drinking vessel for common use at any such drinking place, provided this rule and regulation shall not preclude the use of vessels which are cleaned by washing in boiling water or are disinfected or destroyed after individual use. Public places within the meaning of this regulation shall include common carriers, private, public, parochial or Sunday schools, industries, factories, theatres, shops, offices, hotels, etc.”

Hygienic requirements have been carefully provided for in the design of the fixtures shown herein. Hajoca fountains meet every requisite for a public sanitary device and are so varied in design that practically every building condition has been fully provided for.

In making these fountains extreme care has been exercised to have all parts smooth and without crevices; they can be easily and readily cleaned. Strict attention has likewise been given to the mechanism so as to stand the severe needs of public service.



Plate W-800



Plate W-803

Hajoca No. 403 Vitreo china pedestal drinking fountain, with No. 17 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, loose key stop and galvanized supply and waste pipe concealed in pedestal.

As described \$

Hajoca No. 403 Vitreo china pedestal drinking fountain, with No. 17 nickel-plated fountain head and galvanized supply and waste pipe concealed in pedestal and No. 84 self-closing treadle valve with floor flange.

As described \$

Dimensions of No. 403 pedestal drinking fountain—Height to top of bowl, 30 inches; diameter of top, 12 inches; of base, 15 inches.

For other styles of fountain heads, see page 148.

THESE fountains are made of a single piece of Vitreo china; their heavy white glazed surface is handsome in appearance, will not stain, and is easily kept clean. All the pipes are concealed within the pedestal. This design is well suited for libraries, schools, public buildings, etc. The convenience and hygienic advantages of the treadle valve will be apparent at a glance.

With the Hajoca No. 17 fountain head, the thirst is quenched from a substantial column of water as pure as at its source; not a drop flows over any exposed surface or channel. The column is formed by converging jets and is easy to drink as shown on Plate W-864.



Plate W-806

Hajoca No. 407 Vitreo china drinking fountain on bronzed iron pedestal, with No. 418 china fountain head, No. 71 nickel-plated self-closing operating valve with Easy-grip handle, brass waste pipe and galvanized supply pipe concealed in pedestal and loose key stop.

As described.....\$

Dimensions—Height to top of bowl, 30 inches; diameter of bowl, 9 inches.



Plate W-807

Hajoca No. 206 porcelain enameled drinking fountain on bronzed iron pedestal, with No. 18 nickel-plated fountain head, brass waste pipe and galvanized supply pipe concealed in pedestal and No. 84 self-closing treadle valve with floor flange.

As described.....\$

Dimensions—Height to top of bowl, 30 inches; diameter of bowl, 12¼ inches.

PUBLIC service conditions have been provided for in these fountains. The heads are sanitary and cannot be used for squirting. They project the water in a solid stream high enough to keep the drinkers from touching any parts with their lips or mouths. The fountains are durably built, especially the working parts of the valves, which being self-closing prevent waste of water and insure economy.

The treadle valve shown plate W-807 is opened by a slight touch of the foot and obviates manual operation. Its working parts can be taken up without disturbing or disconnecting any piping, a practical feature highly appreciated whenever it becomes necessary to rewasher the valve.

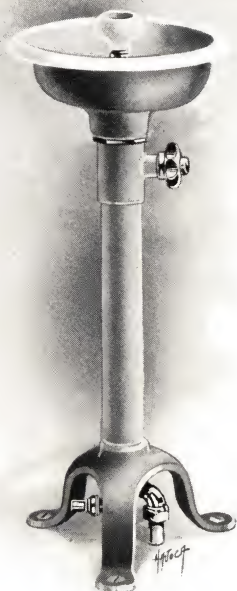


Plate W-808

Hajoca No. 207 porcelain enameled drinking fountain on bronzed iron pedestal, with No. 418 china fountain head, No. 71 nickel-plated self-closing operating valve with Easy-grip handle, brass waste pipe and galvanized supply pipe concealed in pedestal and loose key stop.

As described.....\$



Plate W-810

Hajoca No. 206 porcelain enameled drinking fountain on bronzed iron pedestal, with No. 25 nickel-plated self-closing fountain head with china cup, brass waste pipe and galvanized supply pipe concealed in pedestal and loose key stop.

As described.....\$

Dimensions of Nos. 207 and 206 pedestal drinking fountains—Height to top of bowl, 30 inches; diameter of bowl, 12 $\frac{1}{4}$ inches.

For other styles of fountain heads, see page 148.

THE compactness of these Hajoca fountains is a commendable feature. The operating valves are conveniently placed. The piping is out of harm's way, and the connections are protected from rough usage by the tripod. This base accommodates itself to any unevenness in the floor level and can be securely bolted. The heavy bronzed iron pedestal is well suited to the severest service conditions. The fountain heads are sanitary and cannot be used for squirting by the young or mischievous. The stream is projected in a jet high enough to keep the users from touching any parts with the lips or mouth.



Plate W-812

Hajoca No. 408 Vitreo china drinking fountain on bronzed iron pedestal, with No. 418 china fountain head and No. 71 nickel-plated angle self-closing operating valve with Easy-grip handle and regulator (supply pipe not included).

Dimensions—Height to top of bowl, 30 inches; diameter of bowl, 9 inches.

As described.....\$



Plate W-814

Hajoca No. 208 porcelain enameled drinking fountain on bronzed iron pedestal, with No. 18 nickel-plated fountain head and No. 71 angle self-closing operating valve with Easy-grip handle and regulator (supply pipe not included).

Dimensions—Height to top of bowl, 30 inches; diameter of bowl, 12 $\frac{1}{4}$ inches.

As described.....\$

THE Nos. 408 and 208 fountains are designed for factories and other places where strong substantial fixtures of moderate cost are required. The pedestal serves the purpose of waste pipe and consequently is threaded to facilitate connecting.

The self-closing valves shut off the supply the instant the handles are released and thereby prevent waste of water. They are made from our high grade red metal mixture; the working parts are substantially built and will stand up under severe service conditions; the regulator permits control of the volume and when adjusted prevents excessive flow thru the fountain head.

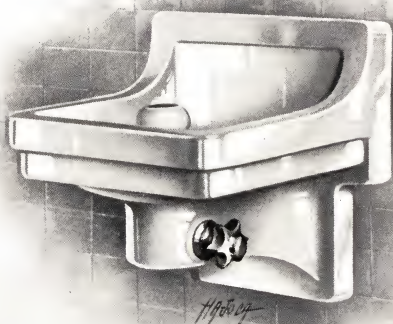


Plate W-820

Plate W-820. Hajoca No. 432 "Adelphia" Vitreo china wall drinking fountain with 4-inch back, concealed wall hanger, No. 418 china fountain head, No. 71 nickel-plated self-closing operating valve with Easy-grip handle, concealed loose key stop, supply pipe and trap to wall; exposed parts nickel plated.

Dimensions—Length, 14 inches; from wall to front, 13 inches.

As described \$

Plate W-821, (not illustrated). Hajoca No. 432 "Adelphia" Vitreo china wall drinking fountain with 4-inch back, concealed wall hanger, No. 17 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, concealed loose key stop, supply pipe and trap to wall; exposed parts nickel plated.

Dimensions—Same as Plate W-820.

As described \$

FOR banks, public buildings, colleges, hotel lobbies and terminal buildings, the "Adelphia" fountain is an exceptionally fine design. All the piping is skillfully concealed from view, yet accessible for installation purposes. The Vitreo china presents an inviting attractive appearance and its surface can be kept spotless with little attention.

Plate W-823. Hajoca No. 732 Regal Vitreo china wall drinking fountain with 4-inch back, nickel-plated wall screws, No. 18 fountain head, No. 71 self-closing operating valve with Easy-grip handle, $\frac{3}{8}$ -inch iron pipe weight supply pipe with loose key stop and 1 $\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length, 10 inches; from wall to front, 12 inches.

As described \$

For other styles of fountain heads, see page 148.

WHERE wall space for drinking fountains is limited and it is necessary to install a compact fixture, Plate W-823 is recommended.

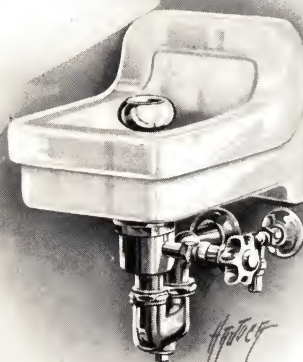


Plate W-823



Plate W-825

Plate W-825. Hajoca No. 328 "Roebing" porcelain enameled roll rim drinking fountain with 12-inch back, concealed wall hanger, No. 17 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, loose key stop, $\frac{3}{8}$ -inch iron pipe weight supply pipe and $\frac{1}{4}$ -inch No. 22 trap to wall and No. 71 "Liberty" self-closing fountain faucet with Easy-grip handle.

Dimensions—Width, $12\frac{1}{2}$ inches; from wall to front, $14\frac{1}{2}$ inches; height, $16\frac{3}{4}$ inches.

As described \$

THE "Roebing" fountain was designed for the John A. Roebing's Sons Co.'s plant, Roebing, N. J. With it the users enjoy the hygienic advantages of the bubbling fountain and for those workmen desiring to take a mouthful of water now and then while plying their work, the separate faucet enables them to draw cold water into pitchers or bottles for their bench supply. The valves are self-closing and shut off the supply the instant the handles are released.

Attention is directed to the No. 17 fountain head. The water issues thru small jet holes on the ring and these little streams converge into a substantial mound of water high enough above the metal parts to prevent any one from touching the fountain head. The water does not flow over any exposed surfaces or channels and is delivered to the drinker just as pure as at its source; see Plate W-864.

Plate W-827. Hajoca No. 328 porcelain enameled roll rim drinking fountain with 12-inch back, concealed wall hanger, No. 18 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, loose key stop, $\frac{3}{8}$ -inch iron pipe weight supply pipe and $\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Same as Plate W-825.

As described \$

For other styles of fountain heads, see page 148.

THE concealed wall hanger furnished with this drinking fountain provides ample support and can be placed any height on the wall for use by small children in school houses etc.



Plate W-827

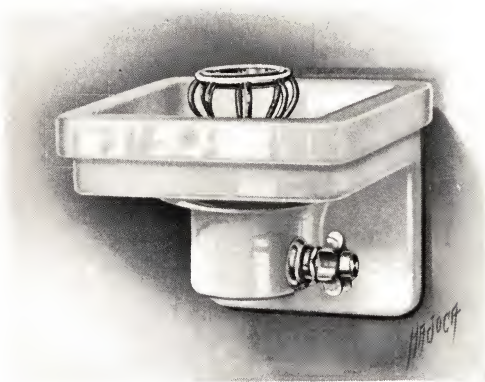


Plate W-830

Plate W-830. Hajoca No. 431
 "Academic" Vitreo china wall drinking fountain, with concealed wall hanger, No. 17 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, concealed loose key stop, supply pipe and trap to wall; exposed parts nickel plated.

Dimensions—Length, 12 inches; from wall to front, 13 inches.

As described \$

The No. 17 fountain head is further illustrated and described Plate W-864.

FOR school buildings etc., the "Academic" is an usually good design. All piping is concealed but quite easy of access for installation and repair work. The Vitreo china can be kept spotless with little effort. To protect walls and floors from possible splashing by mischievous users, a number of architects specify in connection with the "Academic" a marble wall slab 60 inches high by 30 inches wide by $\frac{7}{8}$ inch thick and a floor slab 30 inches wide by 24 inches deep by $1\frac{1}{4}$ inches thick.

Plate W-833. Hajoca No. 331
 "Victor" porcelain enameled roll rim drinking fountain, with brackets, No. 18 nickel-plated fountain head, No. 71 self-closing operating valve with Easy-grip handle, loose key stop, $\frac{3}{8}$ -inch iron pipe weight supply pipe and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—12 inches square.

As described \$

For other styles of fountain heads, see page 148.

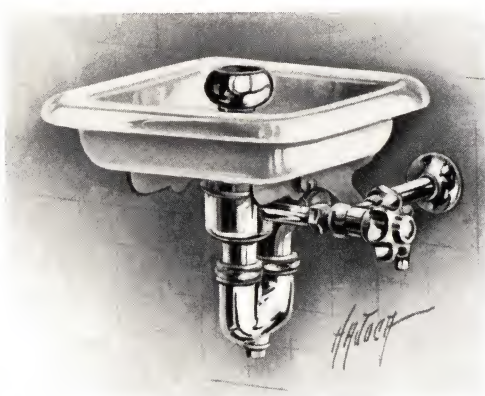


Plate W-833

HAJOCA fountains are equipped with a most substantial self-closing valve designed to stand the severest service conditions. This valve is furnished with an Easy-grip handle easy to operate, even for the youngest of school children.



Plate W-835

Plate W-835. Hajoca No. 409
Vitreo china wall drinking fountain,
with No. 418 china fountain head, No.
71 nickel-plated self-closing operating
valve with Easy-grip handle and
regulator, $\frac{3}{8}$ -inch bronzed supply pipe
and $1\frac{1}{2}$ -inch waste pipe to wall.

Dimensions—Diameter of bowl, 9
inches.

As described \$

THE No. 409 and No. 209 are substantially built wall fountains with the outlet pipe forming the supporting bracket and are suitable for factories, workshops and industrial plants. They can be installed at any height convenient for the user. The connections and piping are finished with bronze exterior. For moderate cost installations and severe service conditions these fountains are recommended and will prove especially durable.

Plate W-837. Hajoca No. 209
porcelain enameled wall drinking fountain,
with No. 18 nickel-plated head,
No. 71 self-closing operating valve with
Easy-grip handle and regulator, $\frac{3}{8}$ -inch
bronzed supply pipe and $1\frac{1}{2}$ -inch
waste pipe to wall.

Dimensions — Diameter of bowl,
 $12\frac{1}{4}$ inches.

As described \$



Plate W-837

HAJOCA fountain heads deliver a solid jet of water easy to drink yet high enough to prevent the drinker from coming in contact with any of the fountain parts; these heads, moreover, are squirt-proof.

In the above self-closing valve a regulator is inserted which permits a control of the volume and prevents an excessive flow or rush of water thru the fountain head.



Plate W-840

Hajoca No. 492 Vitreo china wall drinking fountain with 10-inch back, concealed wall hangers, nickel-plated waste strainer, No. 18 fountain head, No. 71 self-closing operating valve with Easy-grip handle, loose key stop, $\frac{3}{8}$ -inch iron pipe weight supply pipe and $1\frac{1}{4}$ -inch No. 22 trap to wall, and No. 71 "Liberty" self-closing fountain faucet with Easy-grip handle and pressure regulator.

Dimensions—Length, 24 inches; from wall to front, 14 inches.
As described \$

For other styles of fountain heads, see page 148.

THE No. 492 fountain is equipped on the left-hand side with a fountain faucet for drawing water into pitchers, etc., and on the right hand side with the Hajoca No. 18 fountain head. It is a most practical fixture for hotel lobbies, restaurants, cafeterias and other places where drinking water is frequently drawn into decanters and glasses by some users and the bubbling fountain is used by others. The self-closing valves shut off the water the instant the handles are released, thereby insuring economy in the use of water, a feature especially desirable if the water is cooled.



Plate W-843

Plate W-843. Hajoca No. 71 "Liberty" flanged self-closing faucet with Easy-grip handle, pressure regulator, inlet for $\frac{1}{2}$ -inch iron pipe.
As described \$

A regulator is inserted in this self-closing faucet which permits a control of the volume flowing thru the water way and prevents an excessive rush of water under high pressure; with proper adjustment of this regulator the water is delivered in a gently flowing stream.

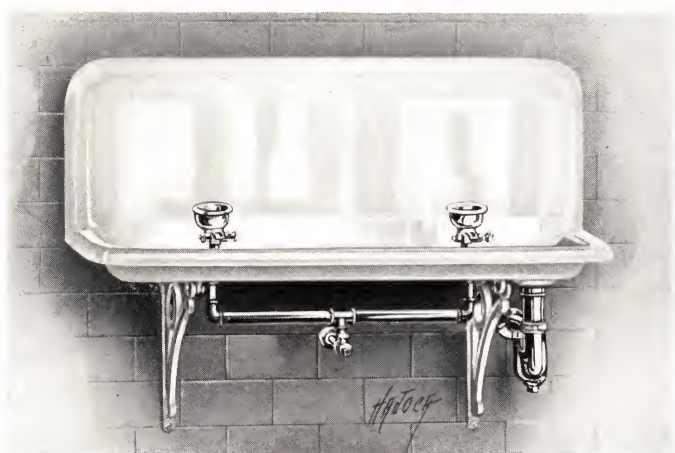


Plate W-844

Hajoca No. 386 porcelain enameled roll rim drinking fountain with 12-inch back, brackets, nickel-plated waste strainer, two No. 25 self-closing fountain heads with regulators, $\frac{3}{8}$ -inch iron pipe weight supply pipe to wall with loose key stop and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length, 36 inches; width, 14 inches.

As described, porcelain enameled inside, painted white outside.....\$

Same, porcelain enameled all over.....\$

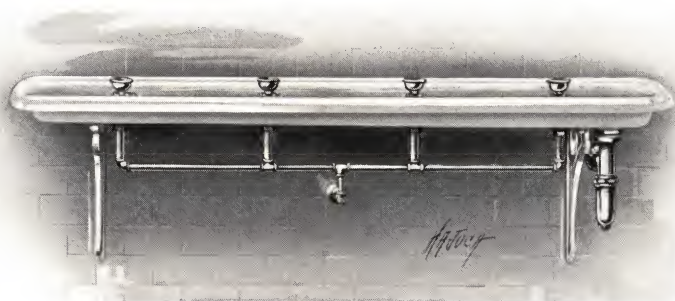


Plate W-845

Hajoca No. 385 porcelain enameled all roll rim drinking fountain with brackets, nickel-plated waste strainer, No. 25 self-closing fountain heads with regulators, $\frac{3}{8}$ -inch iron pipe weight supply pipe to wall with loose key stop and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length, see below; width, 12 inches.

Length, inches.....	30	42	54
Number of fountain heads.....	2	3	4
As described, porcelain enameled inside, painted white outside.....	\$	\$	\$
Same, porcelain enameled all over.....	\$	\$	\$

For other styles of fountain heads, see page 148.

PLATES W-844 and W-845 provide accommodations for several persons at one time and require but a single waste connection being attached to the wall. Each fountain head is fitted with a self-closing valve and a separate regulator to control the volume of the flow.

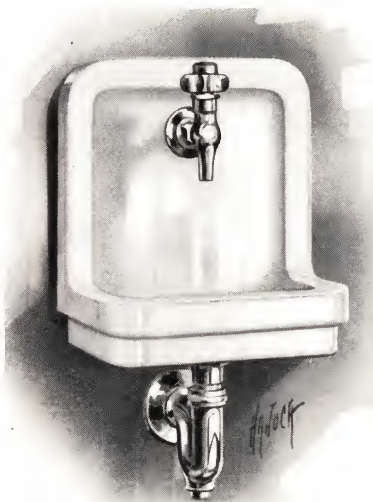


Plate W-846

Plate W-846. Hajoca No. 434 Vitreo china wall drinking fountain with concealed wall hangers, nickel-plated waste strainer, No. 71 "Liberty" flanged self-closing faucet with Easy-grip handle and regulator and 1½-inch No. 32 tap to wall.

Dimensions—Height, 13 inches; width, 12 inches; projection, 8 inches.

As described \$

FOR filling glasses in restaurants and hotels and individual drinking cups in public buildings, Hajoca wall drinking fountains will prove most satisfactory. They take up little space, are attractive in design and can be kept spotless and inviting with little effort.

Plate W-847. Hajoca No. 456 Vitreo china recess drinking fountain, with nickel-plated waste strainer and No. 71 "Liberty" flanged self-closing faucet with Easy-grip handle and regulator.

Dimensions—Height, 17 inches; width, 12 inches; depth, from face of wall to back of recess, 4 inches; projection, 4 inches.

As described \$

LIBERTY faucets are self-closing and, therefore, prevent waste of water, and are equipped with regulators which permit a control of the volume and prevent an excessive rush of water should the pressure be high. With proper adjustment of the regulator the stream flows into the pitcher or glass without splashing.



Plate W-847



Plate W-848

Plate W-848. Hajoca No. 326 porcelain enameled wall drinking fountain with concealed wall hanger, nickel-plated waste strainer, Hajoca No. 71 "Liberty" self-closing fountain faucet with Easy-grip handle and regulator and 1½-inch No. 32 trap to wall.

Dimensions—Height, 22 inches; width, 12½ inches; projection, 9 inches.

As described \$

Plate No. W-849 (not illustrated). Hajoca No. 356 porcelain enameled drinking fountain complete as above, except for recess.

Dimensions—Height, 22 inches; width, 12¾ inches; depth from face of wall to back of recess, 3½ inches; projection, 7 inches.

As described \$

If Plates W-848 and W-849 are furnished with waste pipe to wall, no trap, deduct . . . \$

Plate W-852. Hajoca No. 71 nickel-plated self-closing fountain faucet with Easy-grip handle, arm, regulator and No. 24 fountain head.

As described \$

FREQUENTLY a lavatory is required to serve the combined purposes of a wash stand and drinking fountain and for the fountain on such a combination we recommend Plate W-852. This fits into any regular faucet hole.

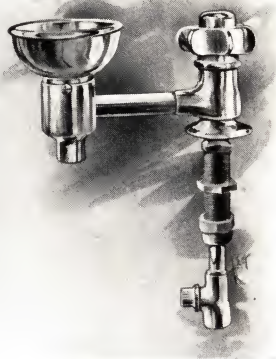


Plate W-852

WATER PRESSURE

Pure water at a constant pressure is the chief requisite for a successful drinking fountain system. With a fairly constant moderate pressure and a supply line of sufficient size, Hajoca fountains can be regulated to deliver the drinking stream just high enough above the fountain head for the drinker's comfort or thru the fountain faucet without splatter or splash.

Wherever the pressure is excessively high or subject to abnormal fluctuations, a pressure regulator should be inserted in the supply line.

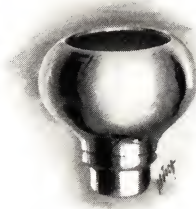


Plate W-860

Hajoca No. 18 nickel-plated fountain head, with inlet for $\frac{3}{8}$ -inch iron pipe.

As described.....\$



Plate W-862

Hajoca No. 418 china fountain head, with inlet for $\frac{3}{8}$ -inch iron pipe.

As described.....\$

THE No. 18 and 418 fountain heads are alike in design and are good practical devices. The No. 18 is heavy cast brass and intended for factories and places liable to rough usage. The No. 418 has a china cup giving it an attractive, inviting appearance. The water rises from a jet in the center. The top rim of the cup acts as a guard preventing the lips or mouth from coming in contact with the jet.



Plate W-864
(Myem Patent)

Hajoca No. 17 nickel-plated fountain head, with inlet for $\frac{3}{8}$ -inch iron pipe.

As described.....\$



Plate W-866

Hajoca No. 18 nickel-plated fountain head, with No. 74 self-closing operating valve and inlet for $\frac{3}{8}$ -inch iron pipe.

As described.....\$

In Plate W-864 the thirst is quenched from a substantial column of water as pure as at its source; not a drop flows over any exposed surface or channel. The column is formed by converging jets of water, and is easy to drink from.

Notice the point of contact between the lips and water. It keeps the drinker from touching any part of the fountain with the mouth and thus prevents contamination.



Plate W-870

Plate W-870. Hajoca No. 25 nickel-plated self-closing fountain faucet with push button, regulator and china cup; extra long back inlet, for $\frac{3}{8}$ -inch iron pipe.....\$

Where it is necessary to use a sink for the combined purpose of sink and drinking fountain, Plate W-870 is recommended. It measures $6\frac{1}{8}$ inches from center of bubble to end of shank.

Plate W-871, (not illustrated). Hajoca No. 24 nickel-plated continuous flow fountain head with china cup; bottom or back inlet, for $\frac{1}{2}$ -inch iron pipe.....\$



Plate W-872

Hajoca No. 25 nickel-plated self-closing fountain head with push button, regulator and china cup; bottom inlet, for $\frac{1}{2}$ -inch iron pipe.....\$



Plate W-873

Hajoca No. 25 nickel-plated self-closing fountain head with push button and regulator; back inlet, for $\frac{1}{2}$ -inch iron pipe.....\$

This fountain measures $3\frac{7}{8}$ inches from center of bubble to end of shank.

HAJOCA No. 25 fountain heads may be furnished with either china or nickel-plated cup, with either bottom or back inlet, and either self-closing or with continuous flow. The nozzle cannot be touched by the lips, nor can the water be squirted by mischievous boys. Each fountain is fitted with a regulator to control the volume of the flow.



Plate W-874

Hajoca Drinking Fountain with cooler, including bubbler head, waste pipe and trap as shown and 20-ft. cooling coil; inlet for $\frac{3}{8}$ -inch iron pipe; outlet for $\frac{1}{2}$ -inch iron pipe.

No.	Size of Box	Height on		Serve No.	
		Stand	Ice Capacity	People	
25-B	16 x 16 x 10 in.	40 in.	25 pounds	25	\$
50-B	16 x 16 x 16 in.	38 in.	50 pounds	50	\$
100-B	16 x 16 x 26 in.	38 in.	100 pounds	100	\$

Both cover and box have double walls of heavy galvanized iron with intervening spaces thoroly packed with granulated cork; excellent insulation is thereby provided with a material saving in ice; the exterior is finished in durable gray enamel.

The shape permits the ice being used in one piece as delivered by the ice man; no cracking or chopping is necessary. A solid cake will not melt as fast as the same quantity cracked into small pieces. The waste outlet is arranged so the coil is submerged in melted ice water.

The 20-foot double tinned heavy brass coil is in direct contact with the cake of ice and is ample to cool rapidly and continuously three glasses of water each minute. The operating valve is self-closing and shuts off the flow the instant released.

It provides a most convenient way for workmen and others to quench their thirst quickly and without loss of time. It is moderate in cost and can be easily installed. The shape is economical for both ice and floor space. It is sanitary. Many representative industrial plants are equipped with this cooler.

HAJOCA BATHROOM ACCESSORIES

MANY of the indispensable conveniences daily enjoyed in the home bathroom result from a careful election of bathroom accessories.

The designs shown herein are in keeping with the high quality and durability of Hajoca Plumbing Fixtures. They are neither ornate nor plain, and being substantial in make as well as attractive in appearance, their installation will insure permanency of service and beauty of surroundings.

Special attention is directed to the quality of Hajoca Accessories. The metal parts are made of heavy brass, and upon comparison will be found more massive and ever so much more substantially built than many other kinds.

Many of the accessories illustrated can be furnished either nickel-plated or with white Ivoroid finish.

The nickel is highly lustrous, and may be so kept by washing with soap and water. No powder or polishing paste is required; in fact, we caution against the use of any abrasive preparation on our nickel surface.

Ivoroid is a beautiful and durable pure white finish, impervious to moisture and can be kept in a state of freshness by wiping now and then with a damp cloth. Accessories with this finish materially lighten household work and at the same time insure perfect cleanliness and freedom from tarnished surfaces.

A number of popular china tiled-in accessories are also shown. They are easy to keep clean, and as they tile into the wall, they do not project or encroach on the bathroom space.



Plate W-900

Hajoca soap dish, nickel plated, with
6 x 4½-inch removable china dish. \$

Same, Ivoroid finish. \$

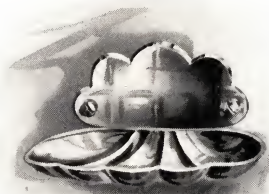


Plate W-901

Hajoca soap dish, shell pattern, nickel-
plated stamped brass. \$



Plate W-902

Hajoca soap dish, nickel plated, with
6 x 4½-inch removable china dish. \$

Same, Ivoroid finish. \$



Plate W-903

Hajoca soap dish, nickel plated, with
perforated removable strainer; 5¼ x 3¼
inches. \$



Plate W-904

Hajoca soap dish, nickel plated, with
6 x 4½-inch removable china dish. \$

Same, Ivoroid finish. \$

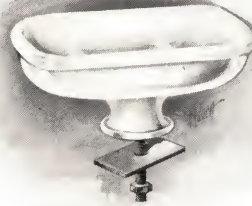


Plate W-905

Hajoca soap dish, with china base \$

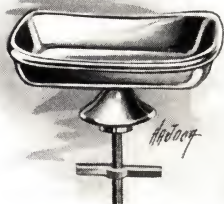


Plate W-907

Hajoca soap dish, nickel plated \$



Plate W-908

Hajoca liquid soap dispenser for wall, nickel plated, with glass container \$



Plate W-909

Hajoca soap dish, nickel plated, for roll rim bath.....\$

Same, Ivoroid finish.....\$



Plate W-910

Hajoca Sponge holder, nickel plated.....\$

Same, Ivoroid finish.....\$



Plate W-911

Hajoca liquid soap dispenser for lavatory faucet hole, nickel plated, with glass container.....\$

FOR the protection of public health, the Hajoca liquid soap dispensers are recommended. Every user is assured a supply of clean soap, untouched by other hands.

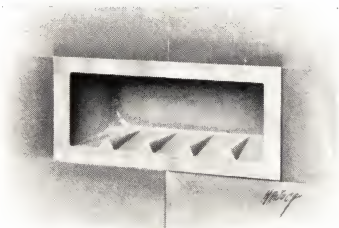


Plate W-912

Hajoca soap holder, white Vitreo china, to recess into tile wall, 6 x 3-inch flange.....\$

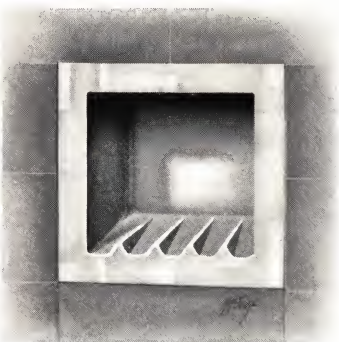


Plate W-914

Hajoca soap holder, white Vitreo china, to recess into tile wall, 6 x 6-inch flange.....\$

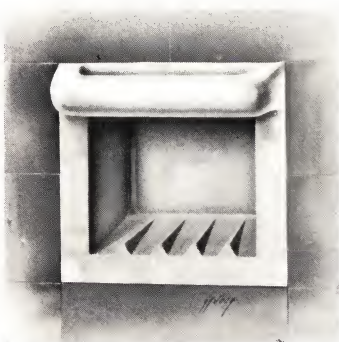


Plate W-915

Hajoca soap holder and grip bar, white Vitreo china, to recess into tile wall, 6 x 6-inch flange.....\$

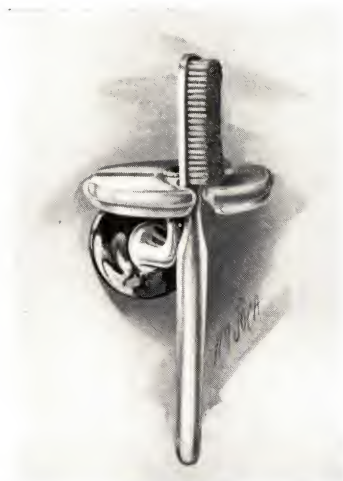


Plate W-913

Hajoca tooth brush holder, with nickel-plated bracket.....\$
Same, Ivoroid finish.....\$

THE white china, which is the only part coming in contact with the brushes, is easily kept clean.



Plate W-916

Hajoca tooth brush and tumbler holder, nickel plated with glass tumbler..\$
Same, Ivoroid finish.....\$

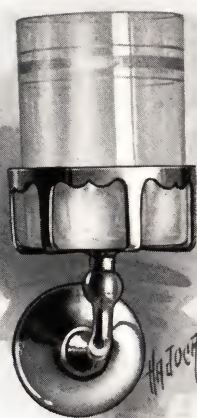


Plate W-920

Hajoca tumbler holder, nickel
plated.....\$
Same, Ivoroid finish.....\$
Glass tumbler, extra.....\$

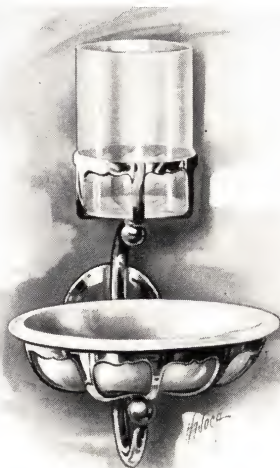


Plate W-921

Hajoca soap and tumbler holder, nickel
plated, with china soap dish and glass
tumbler.....\$
Same, Ivoroid finish.....\$

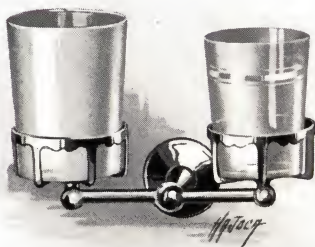


Plate W-924

Hajoca tumbler and vase holder, nickel
plated with glass tumbler and china
vase.....\$
Same, Ivoroid finish.....\$

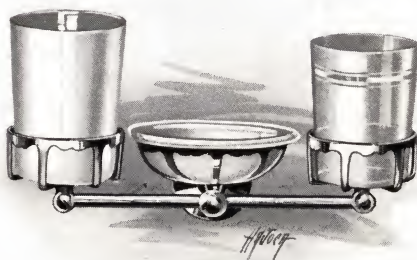


Plate W-925

Hajoca tumbler, soap and vase holder,
nickel plated with glass tumbler, china
soap dish and china vase.....\$
Same, Ivoroid finish.....\$

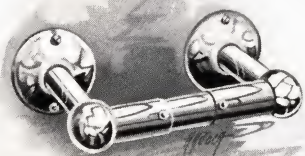


Plate W-930

Hajoca toilet paper holder, nickel plated, for roll\$
Same, Ivoroid finish.....\$

THE roller cannot be removed from Plate W-930 until all the paper has been used. This prevents theft of the rolls, and commends the holder for use in public toilet rooms.

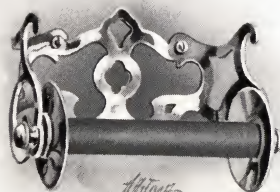


Plate W-931

Hajoca toilet paper holder, nickel plated, for roll\$



Plate W-932

Hajoca toilet paper holder, nickel plated, for sheets; 5½ inches wide by 7 inches high.....\$
Same, Ivoroid finish.....\$

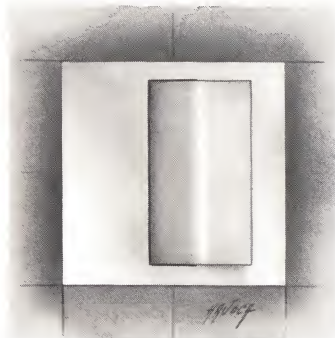


Plate W-933

Hajoca toilet paper holder, white Vitreo china, to recess into tile wall, 6 x 6 inches.....\$

This holder retains specially folded sheets, preventing waste of paper.

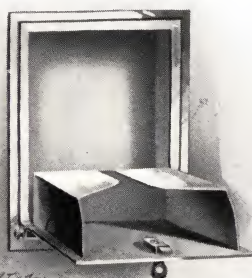


Plate W-934

Hajoca toilet paper holder, nickel plated, to recess into wall, for sheets.....\$
Same, Ivoroid finish.....\$

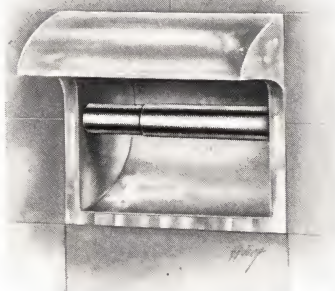


Plate W-935

Hajoca toilet paper holder, white Vitreo china, with nickel-plated roller, to recess into tile wall, 6 x 6-inch flange...\$

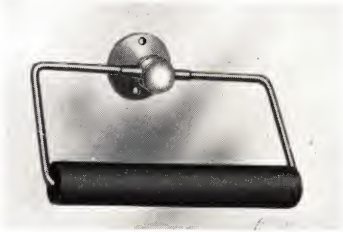


Plate W-936

Hajoca toilet paper holder, nickel plated, for roll. \$

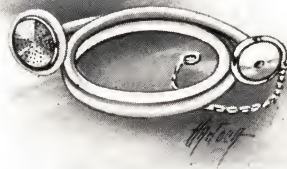


Plate W-937

Hajoca bath spray, with 3-inch nickel-plated rubber-bound sprinkler, rubber tube and bulb. \$



Plates W-938 939 940 941 942 943

		Finish	Nickel-plated	Ivoroid
Plate W-938.	Strop Hook.	\$		
Plate W-939.	1½-inch Robe Hook.	\$		\$
Plate W-940.	2-inch Robe Hook.	\$		\$
Plate W-941.	2-inch Robe Hook.	\$		\$
Plate W-942.	3-inch Robe Hook.	\$		\$
Plate W-943.	Robe Hook.	\$		\$



Plate W-944

Hajoca hanging towel basket for wall, nickel plated. \$
Same, Ivoroid finish. \$

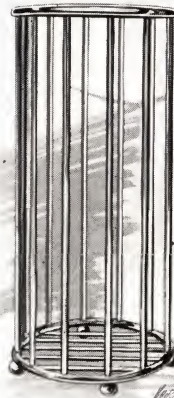


Plate W-945

Hajoca towel basket, nickel plated. \$
Same, Ivoroid finish. \$

HAINES, JONES & CADBURY COMPANY

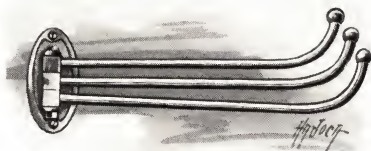


Plate W-948

Hajoca nickel-plated folding towel rack with bent ends.
 Three bars, $\frac{3}{8}$ x 9 inches..... \$
 Same, Ivoroid finish..... \$

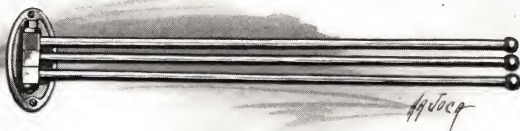


Plate W-949

Hajoca folding towel rack, $\frac{3}{8}$ x 14 inches.
 Two bars, nickel plated..... \$
 Same, Ivoroid finish..... \$
 Three bars, nickel plated..... \$
 Same, Ivoroid finish..... \$

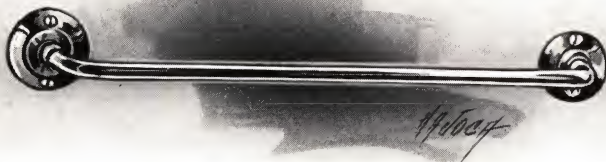


Plate W-950

Hajoca nickel-plated towel bar.
 Length, inches..... 18 24 30
 $\frac{1}{2}$ -inch bar..... \$ \$ \$

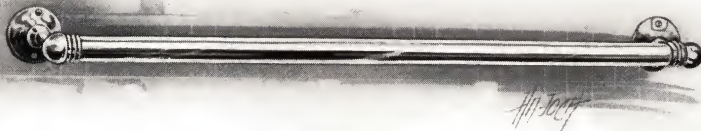


Plate W-951

Hajoca nickel-plated towel bar.
 Length, inches..... 18 24 30 36
 $\frac{3}{4}$ -inch bar..... \$ \$ \$ \$

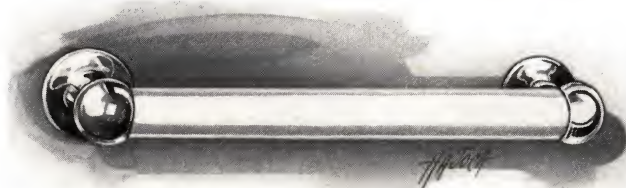


Plate W-952

Hajoca Ivoroid grip bar.
 1½-inch bar, 18 inches long, with nickel-plated posts.....\$
 For white Ivoroid finish posts, add.....\$

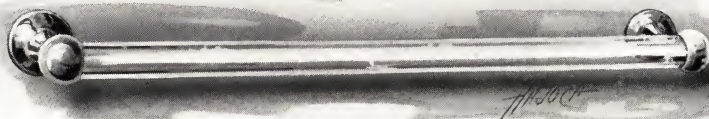


Plate W-953

Hajoca glass towel bar.
 Length, between centers of posts, inches..... 18 24 30 36
 1-inch diameter, clear glass bar, nickel-plated posts....\$ \$ \$ \$
 1-inch diameter, opal glass bar, nickel-plated posts....\$ \$ \$ \$
 For white Ivoroid finish posts, add.....\$



Plate W-954

Hajoca Ivoroid towel bar.
 Length, between centers of posts, inches..... 18 24 30 36
 1-inch bar, with nickel-plated posts.....\$ \$ \$ \$
 1-inch bar, Ivoroid posts.....\$ \$ \$ \$
 1½-inch bar, nickel-plated posts.....— — \$ \$
 1½-inch bar, Ivoroid posts.....— — \$ \$



Plate W-955

Hajoca Ivoroid towel bar with center post.
 Length, between centers of end posts, inches..... 48 60
 1½-inch bar, with nickel-plated posts, each.....\$ \$
 For white Ivoroid finish posts, add.....\$



Plate W-960

Hajoca $\frac{3}{8}$ -inch glass shelf with towel bar and nickel-plated brackets.

Dimensions of shelf	Clear Glass	Opal Glass
5 x 24 inches	\$	\$
5 x 30 inches	\$	\$

If with Ivoroid instead of nickel-plated brackets, add . . \$



Plate W-962

Hajoca $\frac{3}{8}$ -inch glass shelf with towel bar and nickel-plated holders and combination brackets, china vase and glass tumbler.

Dimensions of shelf	Clear Glass	Opal Glass
5 x 24 inches	\$	\$
5 x 30 inches	\$	\$

If with Ivoroid instead of nickel-plated holders and combination brackets, add \$



Plate W-963

Hajoca $\frac{3}{8}$ -inch glass shelf with nickel-plated holders and brackets, china vase and glass tumbler.

Dimensions of shelf	Clear Glass	Opal Glass
5 x 24 inches	\$	\$
5 x 30 inches	\$	\$

If with Ivoroid instead of nickel-plated holders and brackets, add \$



Plate W-964

Hajoca $\frac{3}{8}$ -inch glass shelf with nickel-plated brackets.

Dimensions of shelf	Clear Glass	Opal Glass
5 x 18 inches	\$	\$
5 x 24 inches	\$	\$
5 x 30 inches	\$	\$

If with Ivoroid instead of nickel-plated brackets, add \$
If with nickel-plated guard rail as shown, Plate W-965, add \$
If with Ivoroid guard rail as shown, Plate W-965, add \$



Plate W-965

Hajoca $\frac{3}{8}$ -inch glass shelf with nickel-plated brackets and guard rail. For sizes, etc., see Plate W-964.



Plate W-966

Hajoca $\frac{5}{16}$ -inch glass shelf with nickel-plated brackets.

Dimensions of shelf	Clear Glass	Opal Glass
5 x 18 inches	\$	\$
5 x 24 inches	\$	\$
5 x 30 inches	\$	\$

If with Ivoroid instead of nickel-plated brackets, add \$



Plate W-970

Hajoca white steel medicine cabinet with plate-glass shelves, nickel-plated knob and beveled plate-glass mirror in door.

Number.....	922½	920
Size over all.....	20½ x 20½	27 x 21
To hang on wall....	\$	\$
For recess.....	\$	\$



Plate W-974

Hajoca No. 809 Ivoroid corner medicine cabinet with 3 plate-glass shelves, nickel-plated knob and beveled plate-glass mirror in door, each.....\$

Dimensions—Height, 23 inches; width, along wall, 14 inches.

Plate W-970 is made of sheet steel, light in weight, strong and durable, and is sanitary in the highest degree. The exposed surfaces in and out are covered with several coats of enamel baked on. This surface can be kept clean by wiping with a damp cloth.



Plate W-976

Hajoca Ivoroid medicine cabinet to recess into wall, with plate-glass shelves, nickel-plated knob and lock and beveled plate-glass mirror in door.

Number	Sizes over all, inches
802	24½x17¾x5¼
803	28¼x20½x5⅞
804	31 x21¾x5⅞



Plate W-977

Hajoca Ivoroid medicine cabinet for wall, with plate-glass shelves, nickel-plated knob and lock, and beveled plate-glass mirror in door.

No. of Shelves	Plate W-976	Plate W-977
2	\$	\$
3	\$	\$
3	\$	\$



Plate W-978

Hajoca No. 842 Ivoroid medicine cabinet to recess into wall with three plate-glass shelves, nickel-plated knob and lock and beveled plate-glass mirror in door.

Made to fit recess, 23 x 17 x 4⁵/₈ inches.....\$

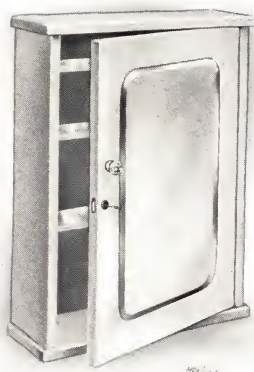


Plate W-979

Hajoca Ivoroid medicine cabinet for wall with plate-glass shelves, nickel-plated knob and lock, beveled plate-glass mirror in door.

Number...	822	823
Size over all,		
inches...	19 x 15 ³ / ₄ x 5 ³ / ₄	23 x 17 ³ / ₄ x 5 ³ / ₄
Number of		
Shelves..	2	3
Each.....	\$	\$



Plate W-982

Hajoca beveled plate-glass mirror with Ivoroid frame.

20 x 14 inches.....	\$
24 x 16 inches.....	\$
28 x 18 inches.....	\$

Sizes given are for the glass only.



Plate W-983

Hajoca oval beveled plate-glass mirror with Ivoroid frame.

20 x 14 inches.....	\$
24 x 16 inches.....	\$
28 x 18 inches.....	\$

Sizes given are for the glass only.

No accessory adds more to the convenience and appearance of the toilet or bathroom than a good mirror. Hajoca mirrors are made of plate glass, beveled and well framed.



Plate W-984

Hajoca triplicate plate-glass mirror with folding wings and Ivoroid frames.
 Dimensions of center glass mirror, 40 x 18 inches; folding side mirrors, each, 20 x 10 inches.

As described, each.....\$

Hajoca Ivoroid shelf and brackets with opal glass top.

Dimensions of shelf, 34 x 12 inches, each.....\$



Plate W-988

Hajoca bath tub seat with nickel-plated rubber-bound hangers.

Oak seat.....\$

Ivoroid seat.....\$



Plate W-990

Hajoca Ivoroid bathroom stool, round, with rubber tips, each.....\$



Plate W-991

Hajoca Ivoroid bath chair . . . \$

The back of this chair is low, so as to allow elbow room for the arms when dressing the hair. This style is specially suited for use with dressing tables.

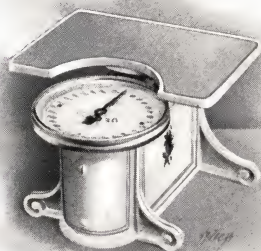


Plate W-994

Hajoca bathroom scale, white enamel \$

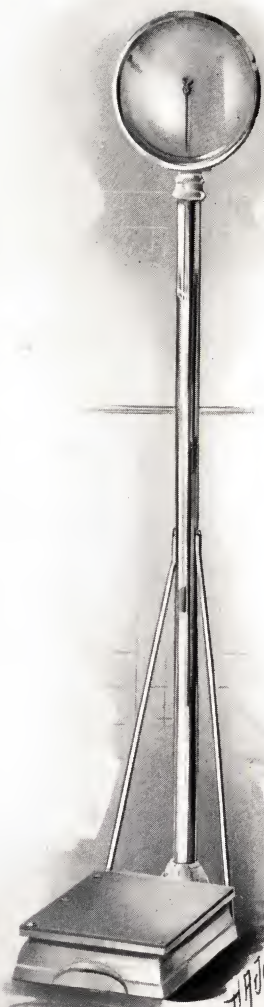


Plate W-996

Hajoca bathroom scale, white enameled with nickel-plated standard \$



Plate W-1050

Plate W-1050. Hajoca "Adelphia" Vitreo china flushing rim bidet with integral seat and jet, nickel-plated No. 15 lifting-plug waste with china lever, mixing valve and diverting valve to jet and flushing rim with No. 12-C all china index handles and china base flanges and supply pipes to floor.

As described.....\$

Plate W-1052, (not illustrated). Hajoca "Adelphia" Vitreo china flushing rim bidet with integral seat, no jet, nickel-plated No. 15 lifting-plug waste with china lever and compression hot and cold supply fittings to flushing rim with No. 12-C all china index handles and china base flanges and supply pipes to floor.

As described.....\$

THE Hajoca bidet adds much to the comfort, convenience and completeness of the well-appointed bathroom. The seat is of Vitreo china, an important essential, as it does away with all woodwork. By means of the No. 15 lifting-plug waste a body of water may be retained in the bowl.

Plate W-1054. Hajoca nickel-plated bidet attachment for water closet, with double compression mixing valve with No. 12-C all china index handles, adjustable delivery tube and supply pipes to floor.

As described, not including closet...\$

THE bidet attachment for use with a water closet will be found convenient and desirable where a separate bidet fixture cannot be installed on account of lack of space or other reasons. The water flows thru the delivery tube only when it is lowered into position. When not in use, the tube is turned back out of the way and is concealed under the closet seat.



Plate W-1054

HAJOCA WATER CLOSETS

THE value of sanitary features in closet bowl construction is too well established to require further reference to such; and it is only necessary to make a brief mention that Hajoca closet bowls measure up to the exacting requirements of modern sanitation.

Our reputation for everything worthwhile in closet making has been built upon the above fact.

In addition our flushing devices are designed and made so as to enhance the cleansing properties of the bowl and secure a thoro and prompt elimination of the waste with a minimum consumption of water.

Governed in the making of our closet line by these basic essentials—proper bowl construction and a flushing device of demonstrated perfection—we offer in this catalog an excellent variety of modern closets which our long experience can guarantee as most dependable combinations.

These types include among others the popular Hajoca quiet-acting closets for high grade residential work, some excellent examples of which are shown on the following pages. Several new automatic closets for public service purposes are also shown for the first time. Various firms of architects have already chosen the Hajoca “Walbilt” closets as their standard for modern office buildings, etc.

The closet bowl with the projected front is a most satisfactory design and is rapidly gaining the merited recognition which its sanitary construction warrants. The selection of this type for both residential and public service is recommended.

Mention should be made of the material used in our closet outfits. The bowls are Vitreo china with a white high gloss surface. This is the perfect material for sanitary plumbing purposes. It is non-absorbent and proof against moisture, acids, etc., and can be easily kept sweet and clean. The seats are constructed for durability. As Hajoca flushing devices are subjected to a series of severe service conditions before adopted as a part of our closet combinations, successful operation and long service are assured.

The Hajoca closets shown herein will meet every expectation for superior service and durability.

CONSTRUCTION OF HAJOCA CLOSET BOWLS

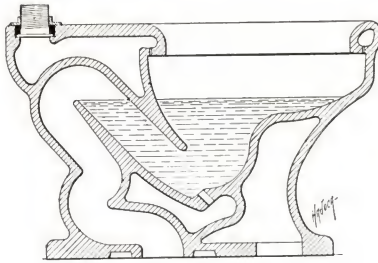


Plate W-1100

Plate W-1100. Hajoca No. 428 "Liberty" full syphon jet closet. This is the most desirable type of closet. It contains a large body of water, has a deep water seal and presents the minimum of exposed surface between the water line and the top of the bowl. It makes less noise in flushing than many other styles of closets. The "Liberty" closet has its rim recessed at the back and is therefore roomier from front to back than similar closets of the same type. This feature adds to its sanitary completeness.

Plate W-1101. Hajoca No. 430-8 "Liberty" full syphon jet closet with projected flushing rim at front and round raised rear vent. In addition to the merits of the regular "Liberty" closet the large vent provides for ample ventilation. Attention is directed to the location of the vent outlet; being higher than the rim of the bowl, it is a safeguard against flooding the vent duct in case of bowl stoppage.

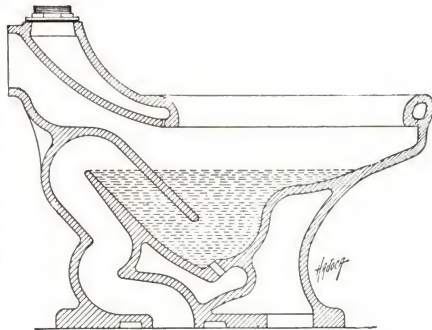


Plate W-1101

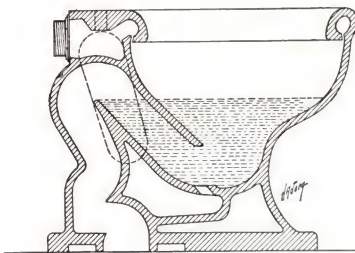


Plate W-1103

Plate W-1103. Hajoca No. 414 "Clearbore" back inlet syphon jet closet. This closet is similar to the syphon jet type; but the inlet is at the back instead of at the top. As the appearance is not unlike that of the full syphon jet closets, care should be taken to distinguish between the two.

CONSTRUCTION OF HAJOCA CLOSET BOWLS

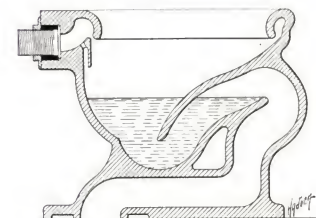


Plate W-1105

Plate W-1109. Hajoca No. 553 extra heavy syphon washdown closet with jet. This closet is very strong being made extra heavy thruout and is intended for places where it may be subjected to hard usage. The syphonic action is reinforced by the jet, insuring a thoro cleansing of the bowl each time it is flushed.

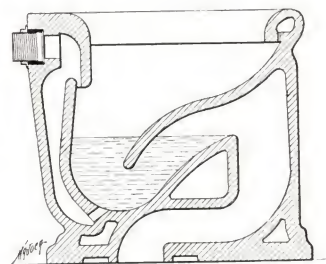


Plate W-1109

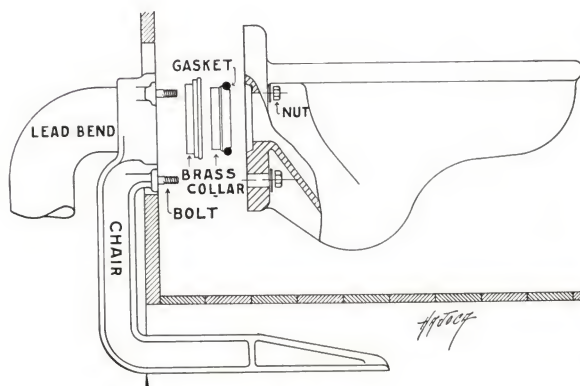


Plate W-1112

Plate W-1112. Hajoca No. 594 "Walbilt" wall closet. The "Walbilt" bowl is of the jet-acting type and gives a most thoro flush. The bowl is supported on an iron chair which relieves the wall and soil line from every ounce of load. The outlet of the closet is connected directly to the soil pipe line by means of a heavy cast brass lead pipe collar with plum-bago-asbestos gasket and lead pipe. The connecting lead pipe provides amply for any possible settling of the floor or wall and the expansion and contraction of the iron soil line.

APPROXIMATE DIMENSIONS OF CLOSET COMBINATIONS

LOW TANK OUTFITS

Page Number	Plate Number	Width of Tank	From wall to front
173	Plate W-1122	22½ inches	28 inches
173	Plate W-1123	22½ "	28 "
176	Plate W-1130	21½ "	28 "
176	Plate W-1131	21½ "	28 "
177	Plate W-1132	21½ "	28 "
177	Plate W-1133	21½ "	28 "
178	Plate W-1136	21½ "	27½ "
178	Plate W-1137	21½ "	27½ "
179	Plate W-1139	21½ "	27½ "
179	Plate W-1140	21½ "	27½ "
180	Plate W-1141	21½ "	27½ "
180	Plate W-1142	20½ "	27½ "
181	Plate W-1144	21½ "	28 "
182	Plate W-1150	21½ "	29½ "
183	Plate W-1154	21½ "	29½ "
184	Plate W-1160	21½ "	29 "
184	Plate W-1162	20½ "	29 "
184	Plate W-1163	21 "	29 "
185	Plate W-1165	21½ "	31 "
186	Plate W-1167	21½ "	28 "
186	Plate W-1168	21½ "	27¼ "
186	Plate W-1170	20½ "	28 "
186	Plate W-1172	20½ "	27¼ "
187	Plate W-1174	21 "	28 "
187	Plate W-1177	20½ "	30 "
187	Plate W-1178	21 "	30 "
187	Plate W-1179	20½ "	29¼ "
188	Plate W-1184	21 "	28 "

HIGH TANK OUTFITS

Page Number	Plate Number	Height to rim of bowl	From wall to front
189	Plate W-1200	15½ inches	26 inches
189	Plate W-1201	15½ "	26 "
189	Plate W-1202	15½ "	28 "
190	Plate W-1204	15½ "	28 "
190	Plate W-1206	15½ "	27½ "
192	Plate W-1214	16 "	24 "
192	Plate W-1218	16 "	26 "
193	Plate W-1220	16½ "	23½ "
193	Plate W-1224	16½ "	23 "

APPROXIMATE DIMENSIONS OF CLOSET COMBINATIONS

AUTOMATIC SEAT ACTION OUTFITS

Page Number	Plate Number	Height to rim of bowl	From wall to front
194	Plate W-1230	15 inches	26½ inches
194	Plate W-1232	13 "	26½ "
195	Plate W-1236	15 "	28½ "
195	Plate W-1238	13 "	28½ "
195	Plate W-1240	15 "	28½ "
195	Plate W-1242	13 "	28½ "
196	Plate W-1246	15 "	26½ "
196	Plate W-1248	13 "	26½ "
197	Plate W-1250	15 "	28½ "
197	Plate W-1252	15 "	28½ "
198	Plate W-1254	15 "	28 "
199	Plate W-1255	15 "	28 "
200	Plate W-1260	15 "	26½ "
200	Plate W-1262	13 "	26½ "
200	Plate W-1264	15 "	28½ "
200	Plate W-1265	13 "	28½ "
201	Plate W-1266	15 "	28½ "
201	Plate W-1267	13 "	28½ "
201	Plate W-1270	15 "	26½ "
201	Plate W-1272	13 "	26½ "
202	Plate W-1274	15 "	28½ "
202	Plate W-1275	15 "	28½ "

FLUSHMETER OUTFITS

Page Number	Plate Number	Height to rim of bowl	From wall to front
205	Plate W-1311	15½ inches	26 inches
205	Plate W-1312	15½ "	28 "
206	Plate W-1314	15½ "	28 "
208	Plate W-1318	15½ "	27½ "
208	Plate W-1320	16½ "	23 "
208	Plate W-1322	16½ "	23 "
209	Plate W-1324	16 "	26 "
209	Plate W-1326	16½ "	23 "
209	Plate W-1328	16½ "	23 "

"WALBILT" OUTFITS

Page Number	Plate Number	Height to rim of bowl	From wall to front
211	Plate W-1352	15 inches	22½ inches
211	Plate W-1354	15 "	20 "
211	Plate W-1356	15 "	22½ "
212	Plate W-1360	15 "	22½ "
212	Plate W-1362	15 "	20 "
212	Plate W-1364	15 "	24½ "

HAJOCA No. 10 WATER-SEALED GAS-TIGHT FLOOR PLATE

THE importance of making a joint between the closet and the waste pipe which will prevent the escape of sewer gas into the house is recognized by all sanitarians, and the difficulty of obtaining this result easily, effectively and at moderate cost has long been a problem to the plumber.

The Hajoca No. 10 water-sealed Gas-tight sanitary floor plate makes a permanent and positively tight joint between the closet bowl and the waste pipe. It is very simple and is quickly and easily installed.

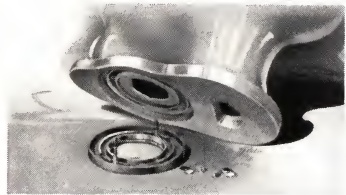


Plate W-1120

Closet Bowl ready for connection with waste pipe by means of the Hajoca No. 10 water-sealed Gas-tight sanitary floor plate

Annular projections moulded in the bottom of the closet (see illustration) fit into corresponding depressions in the floor plate. Our Hajoca Gas-tight compound is melted and poured into the floor plate, and before it has time to cool the closet is set in place. The compound fills all the openings between bowl and plate, adjusting itself to the shape of each individual fixture, and so securing a perfectly tight joint even tho the floor may be uneven or the plate set crooked. When the compound is set and allowed to harden, the escape of sewer gas thru the joint is impossible.

Should any unforeseen condition arise making the escape of sewer gas possible at the connection, the fact would be revealed at once by water seeping thru and appearing as a "tell-tale" around the foot of the closet.

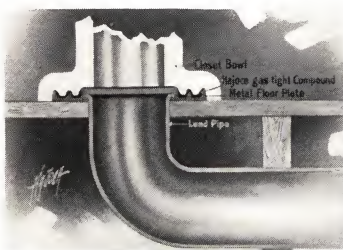


Plate W-1121

Sectional View of the Hajoca Gas-tight Joint

The Hajoca No. 10 water-sealed Gas-tight floor plate has many advantages over the older methods of making the connection. Putty will dry out, rubber may deteriorate and shrink with age, and the so-called "ground-joint" connections require absolutely accurate setting, and in case of any settling of the pipe or building they no longer remain tight. The Hajoca No. 10 joint is made with our special Gas-tight compound, which is flexible and practically everlasting, and not so rigid but that the closet can be removed at any time required.

The Hajoca No. 424-1 "Refill" closets are furnished with this connection regularly; our other high-grade closet bowls can be furnished with this Gas-tight floor plate and for such will be made specially to order.

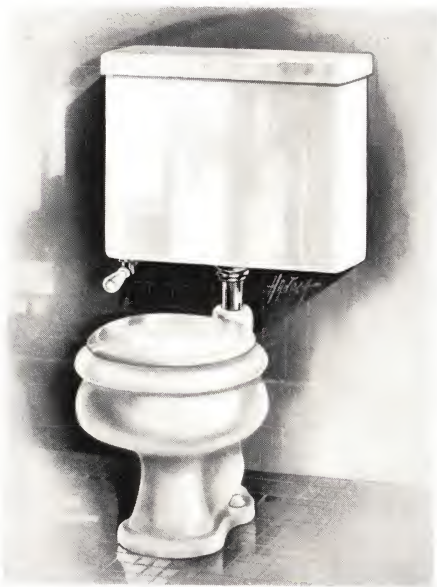


Plate W-1122

Plate W-1122. Hajoca No. 424-1 "Refill" Vitreo china syphon jet closet with Purita flushing rim, No. 10 water-sealed Gas-tight floor connection with porcelain bolt caps, No. 840 white Ivoroid saddle seat with cover, No. 446 Vitreo china tank with china lever underneath, No. 10 Regulo adjustable flush valve, concealed supply with stop and straight flush connection.

As described.....\$

Plate W-1123. Hajoca No. 424-7 closet as above except with oval raised rear vent and Vitreo china long oval vent flange (see Plate W-1127)\$

THE SILENT WATER CLOSET

AN EXCLUSIVE HAJOCA INVENTION

THE Hajoca No. 424-1 "Refill" is a most practical closet for the elimination of the hissing and coughing incident to flushing. The "coughing" noises heard in the flushing of ordinary closets are caused by the rush of water expelling the air from the inner passages of the closet; and the hissing noises frequently accompany the flushing of the bowl or the refilling of the tank with water after the flushing has ceased.

The Hajoca No. 424-1 "Refill" closet overcomes this unpleasantness. Its operation cannot be heard outside the room, and even inside the bathroom itself it is no more noticeable than the running of water in the lavatory. The bowl is provided with a special refill chamber which automatically admits the water and expels the air from the passages at the beginning of each flush. This is done gently and silently. It is so constructed that the contents begin to discharge even before the flush of water around the rim begins, thus insuring quick and absolute disposal.

The refill chamber also insures a full seal of water remaining in the bowl after the flushing has ceased and does away with the need for any refill tube connected to the ball cock in the tank.

The Purita flushing rim is another desirable feature of the Hajoca No. 424-1 "Refill" closet. It is shaped to deflect immediately into the bowl all moisture likely to fall upon it. As there is more open space from front to back, there is less chance for the china to be soiled.

The waste pipes leading from the closet to the sewer connection should, of course, be properly arranged to prevent any noise of running water after leaving the closet.

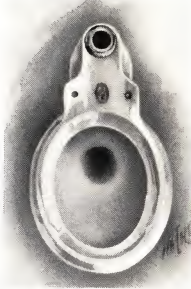


Plate W-1124

Top view of Hajoca No. 424-1 "Refill" Closet showing the Purita rim

Plate W-1125. Hajoca No. 10
Regulo adjustable flush valve for low tank.

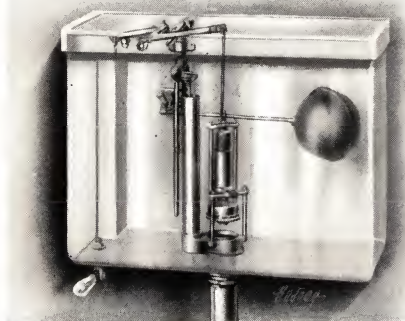


Plate W-1125
Showing No. 446 tank equipped with the water saving No. 10 Regulo flush valve

THIS valve meets the demand for a reliable device for flushing water closets quietly and without wasting water. By means of the thumb-screw on the flush valve the length of the flush can be regulated, so that a uniform volume of water will be discharged each time the tank is operated. In this way a considerable saving of water can be effected by adjusting the valve in each tank to suit the requirements of the bowl with which it is connected, so as to give just the right amount of water to properly flush out the contents of the closet.

The Hajoca No. 10 valve is practically noiseless in operation. The cylinder is "water lubricated," and the relief valve is of large size, thus securing easy operation and preventing the valve from sticking.

When used in connection with our No. 446 Vitreo china tank, two thoro flushes can be secured in immediate succession without waiting for the tank to fill up a second time, a very desirable feature, especially where the water pressure is low, and the tank consequently slow in filling.

As an extra large tank is needed to hold water sufficient for two immediate flushes, our No. 446 tank should always be specified in such cases.

From the sanitary standpoint the importance of two successive flushes for a closet bowl cannot be overstated. It insures a clean bowl at all times. Whenever the most approved tank equipment is desired, we recommend the No. 10 Regulo flush valve.

Plate W-1126. Hajoca solid vitreous closet floor slab. Length, 24 inches; width, 12 inches.

As described \$

THE Hajoca solid vitreous floor slab makes a firm and non-absorbent support for the water closet bowl. It will not stain, is easily kept clean, and adds to the appearance of the fixture.

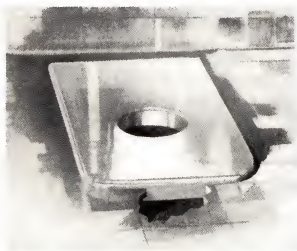


Plate W-1126

THE HAJOCA LARGE RAISED REAR CLOSET VENT

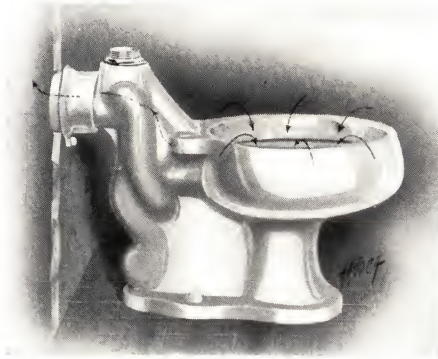


Plate W-1127
Showing by Arrows the Course of the
Air Currents

IN these days when so much attention is given to the scientific ventilation of buildings of all kinds in order to secure wholesome fresh air for the occupants, it is fitting that special attention should be given to the proper ventilation of bath and toilet rooms.

The object of such ventilation in connection with water closet fixtures is twofold; first, to remove the unpleasant odors incident to the use of the fixture; and second, to secure a continuous circulation of fresh air in the room.

Both of these objects are accomplished by using water closets equipped with the Hajoca large raised rear vents. The air, following the direction of the arrows

shown in the illustration, is drawn up thru the vent and out at the back into the ventilating duct. Ventilation is thus secured at the point of greatest contamination; and when the closet is not in use, a current of air, which is drawn from all parts of the room, is continuously passing out thru the vent.

Water closets with vents of various kinds have been manufactured for upwards of sixty years. Many of the older types, however, are open to objections and it is only recently that they have been perfected to such a degree as to perform adequate service.

The Hajoca large raised rear vent overcomes all of these objections. Instead of the small vent arm below the rim of the closet, it has a large channel with the upward curve of the vent offering a full free course to air currents. This channel is of ample size for the thoro ventilation of the closet, and its outlet is higher than the rim of the bowl, so that in case of stoppage of the closet, the water will not back up into the ventilating duct.

There are various methods of connecting vented closets to the vent duct and of producing the necessary movement of air in the duct. For additional information see pages 191 and 207. As one of the chief requisites for the successful ventilation of closet bowls is an ample and continuous flow of air thru the vent pipes, such ventilating ducts should have sufficient area to take care of all the bowls connected to them and a vigorous and continuous draft of air.



Plate W-1130

Plate W-1130. Hajoca No. 404 "Quietflow" de luxe Vitreo china full syphon jet closet, No. 50 floor plate and porcelain bolt caps, No. 834 white Ivoroid seat with cover and Ivoroid hinges, No. 427 Vitreo china tank with china lever underneath, concealed supply with stop and straight flush connection; all exposed metal parts finished in white Ivoroid.

As described \$

As shown on Plate W-1125, the supply enters the back of the tank near the top and is not seen. With the ball cock a stop is furnished for shutting off the water whenever it might be necessary. All exposed metal parts are finished in white Ivoroid and can be kept spotless by wiping now and then with a damp cloth.

Plate W-1131, (not illustrated). Hajoca No. 404 "Quietflow" Vitreo china full syphon jet closet, No. 50 floor plate and porcelain bolt caps, No. 826 white Ivoroid saddle seat with cover, No. 426 Vitreo china tank with china lever underneath, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe to wall with wheel handle stop and straight flush connection.

As described \$

THE HAJOCA "QUIETFLOW" CLOSET

THE "Quietflow" closets have been designed specially for the home bath and toilet room. They are quiet and efficient in their flushing and eliminate those harsh annoying sounds so frequently heard in the operation of many high priced closets.

In meeting the demand for quietness, however, we have not sacrificed any of the efficient operating features for which Hajoca closets have always been noted; in fact, flushing efficiency and sanitary merits should always be the chief requisites in choosing closets. In addition to obtaining unobtrusive action with our special bowl construction, this is further attained by the mechanism of our flush valve and ball cock, both of which do their work without noisy demonstration.

The waste pipes leading from the closet bowl and the supply pipes leading to the tank should be properly arranged to prevent the noise of running water in the pipes.



Plate W-1132

Plate W-1132. Hajoca No. 404 "Quietflow" Vitreo china full syphon jet closet, No. 50 floor plate and porcelain bolt caps, No. 826 white Ivoroid saddle seat with cover, No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight flush connection.

As described.....\$

ASIDE from its highly desirable quiet flushing properties, the "Quiet-flow" is recommended for its attractive design and substantial construction. In making the flush valve and ball cock exacting care is taken to insure extreme durability of all parts subjected to wear.

Plate W-1133. Hajoca No. 404 "Quiet-flow" Vitreo china full syphon jet closet, No. 50 floor plate and porcelain bolt caps, No. 826 golden quartered oak saddle seat with cover, No. 422 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe with wheel handle stop and straight flush connection.

As described.....\$

Same, with No. 826 white Ivoroid seat and cover.....\$

THE Vitreo china of our tanks and bowls is a beautiful material. It is hard and absolutely non-absorbent and for these reasons is the perfect ware for sanitary purposes. The surface can be kept spotless with little care.



Plate W-1133



Plate W-1136

Plate W-1136. Hajoca No. 428
 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 brass floor plate and bolts, No. 826 white Ivoroid saddle seat with cover, No. 427 Vitreo china tank with china lever underneath, concealed supply with stop and straight flush connection.

As described.....\$

Same, with birch mahogany color
 or golden quartered oak seat
 and cover.....\$

THIS closet is one of our most popular designs. The operating lever is in the convenient and comfortable position. The seat is saddle pattern. The internal tank mechanism is in keeping with our high grade closet product. For flushing efficiency the Hajoca "Liberty" closet is one of marked superiority.

Plate W-1137. Hajoca No. 428
 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 brass floor plate and bolts, No. 826 white Ivoroid saddle seat with cover, No. 426 Vitreo china tank with china lever underneath, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe to wall with wheel handle stop and straight flush connection.

As described.....\$

Same, with No. 826-2 white
 Ivoroid hygienic divided seat
 and cover.....\$

FOR residential purposes the all white closet is a practical necessity. The work of cleaning is materially lessened as the highly glazed Vitreo china surface and the white Ivoroid seat can be easily kept spotless by wiping with a damp cloth.



Plate W-1137



Plate W-1139

Plate W-1140. Hajoca No. 428-8 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, round raised rear vent with Vitreo china long round vent flange, No. 50 brass floor plate and bolts, No. 826-2 golden quartered oak hygienic divided seat with cover, No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight flush connection.

As described \$

Same, with No. 826-2 white Ivoroid hygienic divided seat and cover \$

IN the Hajoca round raised rear vent, practical sanitary requirements are adequately provided for; the course of ventilation is free and unhampered—up and outward; the vent has a large area; the outlet into the vent duct is higher than the rim of the bowl and any clogging of the duct because of closet stoppage is thereby prevented.

Plate W-1139. Hajoca No. 428 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 brass floor plate and bolts, No. 826 golden quartered oak saddle seat with cover, No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight flush connection.

As described \$

Same, with No. 826 white Ivoroid seat and cover \$

THO the No. 423 tank is similar in design to the No. 426 tank, it has its lever on the front, near the top instead of underneath. This lever is heavy cast brass and "double-acting," giving a flush whether pushed to the right or left.



Plate W-1140



Plate W-1141

Plate W-1141. Hajoca No. 428 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 brass floor plate and bolts, No. 826 golden quartered oak saddle seat with cover, No. 422 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe and straight flush connection.

As described \$

Same, with No. 826 white Ivoroid seat and cover \$

FOR superior flushing qualities the Hajoca "Liberty" closet takes first rank; it also operates quietly and is desirable alike for residential or public service requirements.

Plate W-1142. Hajoca No. 428 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, floor screws, No. 821 oak seat with cover, No. 418 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated No. 12 gauge supply pipe and straight flush connection.

As described \$

Same, with No. 821 white Ivoroid seat and cover \$

IN the No. 418 Vitreo china tank, dependable equipment has been combined with attractiveness of design. The double-acting top front lever, the flush valve and the ball cock are of uniform high quality and are carefully installed by skilled mechanics.

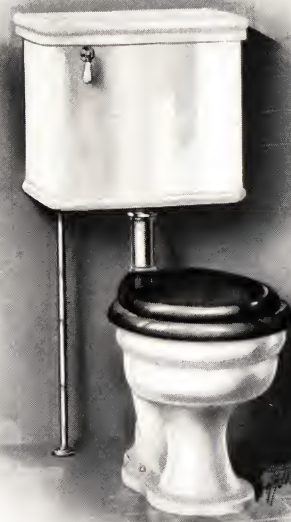


Plate W-1142



Plate W-1144

at the wall in the same manner as the ordinary floor connection, the Hajoca No. 30 floor plate and plumbago-asbestos gasket insuring a tight joint.

Plate W-1144. Hajoca No. 436 "Walden" Vitreo china full syphon jet closet with outlet to wall, No. 30 brass floor plate with plumbago-asbestos gasket and bolts, No. 826 golden quartered oak saddle seat with cover, No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight flush connection.

As described. \$

Same, with No. 826 white Ivoroid seat and cover. \$

Same, with No. 826-2 white Ivoroid hygienic divided seat and cover. \$

THE Hajoca No. 436 closet with rear outlet thru wall is intended for use in buildings of fireproof construction in which no openings thru the floor are permitted; also in basements, public comfort stations and other places where there is but little fall to the sewer level. The connection to the waste pipe is made

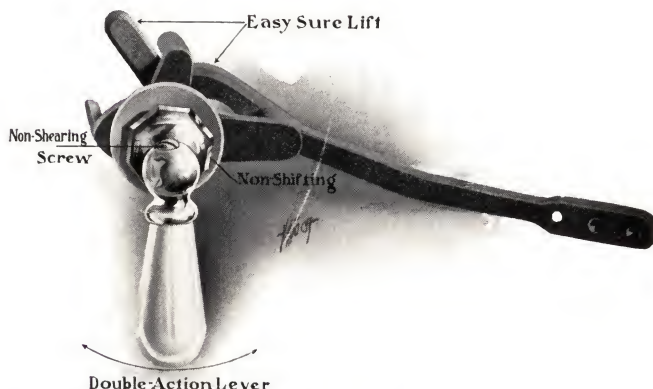


Plate W-1146

Showing the double-acting top front lever used in Hajoca No. 423, No. 422, No. 418, No. 220 and No. 820 tanks

The details in this illustration graphically reveal the substantial design and rugged character of Hajoca closet tank trimmings. Such equipment insures that lasting and satisfactory service which the trade and users have always associated with Hajoca products. The lever is double acting giving the flush whether operated to the right or the left.

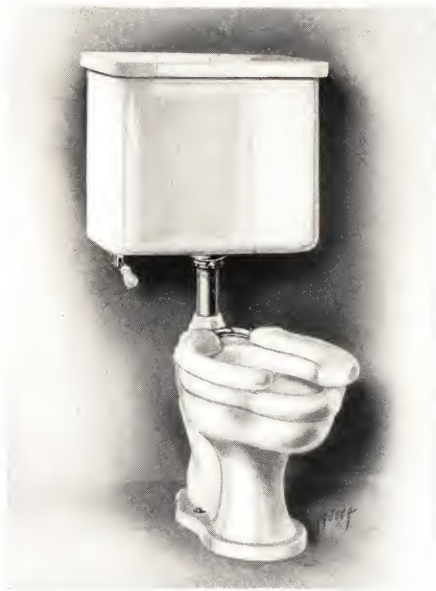


Plate W-1150

Plate W-1150. Hajoca No. 430
 "Liberty" Vitreo china full syphon jet
 closet with projected flushing rim at
 front and back of rim recessed, No. 50
 floor plate and bolts, No. 840-2 white
 Ivoroid hygienic divided seat (no cover),
 No. 427 Vitreo china tank with china
 lever underneath, concealed supply with
 stop and straight flush connection.

As described \$

Same, with No. 840-2 golden
 quartered oak hygienic divided
 seat (no cover) \$

THIS closet with the distinctive sanitary
 projected flushing rim at the front is an
 admirable type for residential as well as
 public service work.

THE characteristic features of this closet are the projected
 flushing rim at front and the recess at back of rim. This
 produces a self-cleansing extra long opening, serviceable
 alike for private or public use, but particularly desirable
 when the closet is to be used for public service; the pro-
 jected flushing rim in front gives more open space front to
 back. Without requiring unnecessary water or an extra
 large tank, the bowl is powerful and at the same time
 quiet in action.

The No. 840-2 hygienic divided seat is shaped to give the
 occupant the full advantage of the extreme length of the
 opening in the closet and so prevents the soiling of either
 bowl or seat at front and rear.

For these reasons we specially commend this fixture
 both for public toilet rooms and for home use.

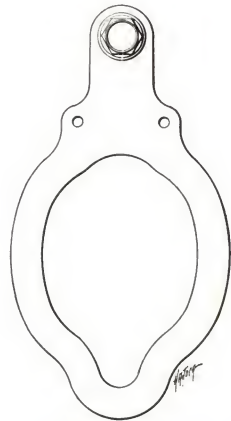


Plate W-1151

Top view of Hajoca No.
 430 closet showing the pro-
 jected flushing rim at front
 and the back of rim recessed.



Plate W-1154

Plate W-1154. Hajoca No. 430-8 "Liberty" Vitreo china full syphon jet closet with projected flushing rim at front and back of rim recessed, round raised rear vent with Vitreo china long round vent flange, No. 50 brass floor plate and bolts, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight flush connection.

As described \$

THE Hajoca No. 840-2 hygienic divided seat when furnished without cover, is provided with stops on the hinge so that no bumper is necessary.

THE Hajoca large round raised rear vent is exceptionally efficient, and provides an ample ventilating course, upwards and out, without any ridges or barriers to hamper the natural direction of the air currents.

It gives ample ventilating area and as the outlet into the vent duct is higher than the rim of the bowl, sure prevention is afforded against the flooding of the duct in case of bowl stoppage.

The connection from the closet vent to the wall is made by means of a Vitreo china long round vent flange, which insures a secure joint and a fine finished appearance.

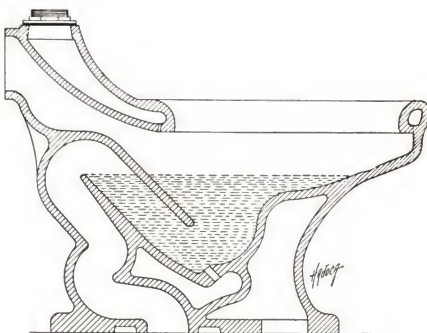


Plate W-1156

Sectional view of Hajoca No. 430-8 closet, showing the round raised rear vent.

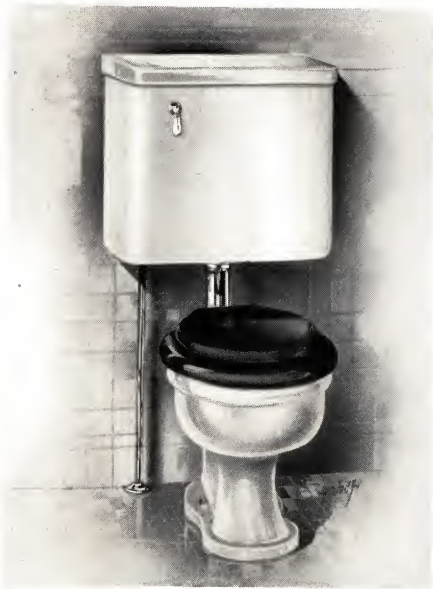


Plate W-1160

Plate W-1160. Hajoca No. 414 "Clearbore" Vitreo china back inlet syphon jet closet, floor screws, No. 826 golden quartered oak saddle seat with cover, No. 422 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe and 5 x 6-inch bent flush connection.

As described \$ 44

Same, with No. 826 white Ivoroid seat and cover \$ 49

For No. 50 brass floor plate, add \$

TO those preferring the back inlet syphon jet closet we recommend the "Clearbore." It has a good flushing action and is moderate in cost.

Plate W-1162. Hajoca No. 414 "Clearbore" Vitreo china back inlet syphon jet closet, floor screws, No. 821 oak seat with cover, No. 418 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated No. 12 gauge supply pipe and 5 x 6-inch bent flush connection.

As described \$

Same, with No. 821 white Ivoroid seat and cover \$

For No. 50 brass floor plate, add \$

Plate W-1163 (not illustrated). Hajoca No. 414 closet as above, except with No. 220 tank, porcelain enameled inside and out.

As described \$

THE Hajoca No. 220 porcelain enameled low tank is very strong and is designed for tenements and other similar situations where an extra durable "hard knock" fixture is required.



Plate W-1162



Plate W-1165

Plate W-1165. Hajoca No. 416 "Clearbore" Vitreo china back inlet syphon jet closet with projected flushing rim at front and back of rim recessed, floor screws, No. 821-8 oak open front seat with cover, No. 422 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe and 5 x 6-inch bent flush connection.

As described.....\$

In the Hajoca No. 416 "Clearbore" closet the sanitary features of the projected flushing rim at front have been incorporated into the back inlet syphon jet bowl.

FOR both residential and public use there is a decided trend toward a more general adoption of closet bowls having the projected flushing rim at the front.

This construction provides a much longer opening from front to back than can be obtained with ordinary closet bowls and, consequently, appeals to all who desire the most approved sanitary equipment. Its installation insures cleanly fixtures and reduces materially the chances of soiling the rim of the bowl.

This type also serves the purpose of both closet and urinal in public installations where there may be no separate urinals in the toilet rooms and is recommended for clubs, schools, hotels, railway stations, stores, etc.

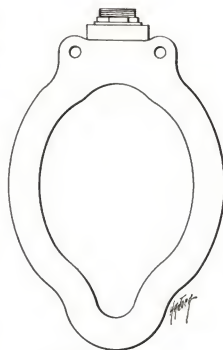


Plate W-1166
Top view of Hajoca No. 416 closet showing projected flushing rim at front and back of rim recessed.



Plate W-1167

Plate W-1170. Hajoca No. 465 "Strongflow" Vitreo china syphon wash-down closet, floor screws, No. 821 oak seat with cover, No. 418 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated No. 12 gauge supply pipe and 5 x 6-inch bent flush connection.

As described. \$ 34.75

Same, with No. 821 white Ivoroid seat and cover. \$ 41.50

Plate W-1172 (not illustrated). No. 465-8 closet as above, except with round raised rear vent and Vitreo china long round vent flange. \$

By the proper construction and placement of the trap the "Strongflow" syphon washdown bowl is made with a most positive flushing action. This closet, together with the fine appearance and excellent qualities of the various tanks with which it may be equipped has consistently maintained its popularity and leadership for moderate cost work.

Plate W-1167. Hajoca No. 465 "Strongflow" Vitreo china syphon wash-down closet, floor screws, No. 821 oak seat with cover, No. 422 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated iron pipe weight supply pipe and 5 x 6-inch bent flush connection.

As described. \$

Plate W-1168 (not illustrated). No. 465-8 closet as above, except with round raised rear vent and Vitreo china long round vent flange. \$

THE Hajoca round raised rear vent insures an ample ventilating channel without any barriers to hamper the upward course of air currents. As the outlet into the vent duct is higher than the rim of the bowl sure prevention is afforded against the flooding of the duct in the event of bowl stoppage.



Plate W-1170



Plate W-1174

Plate W-1174. Hajoca No. 465
 "Strongflow" Vitreo china syphon wash-down closet, floor screws, No. 821 oak seat with cover, No. 220 tank porcelain enameled inside and out with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated No. 12 gauge supply pipe and 5 x 6-inch bent flush connection.

As described \$

THE Hajoca No. 220 porcelain enameled tank is very strong and is designed for tenements and other similar situations where an extra durable "hard knock" fixture is required. Extreme durability is further attained by the use of the Hajoca No. 44 ball cock and the No. 26 flush valve in this tank.

Plate W-1177. Hajoca No. 467
 "Strongflow" Vitreo china syphon wash-down closet with projected flushing rim at front, floor screws, No. 826-4 golden quartered oak hygienic divided seat (no cover), No. 418 Vitreo china tank with double-acting top front lever, $\frac{3}{8}$ -inch nickel-plated No. 12 gauge supply pipe and 5 x 6-inch bent flush connection.

As described \$

Plate W-1178 (not illustrated). Hajoca No. 467 closet as above, except with No. 220 tank porcelain enameled inside and out \$

Plate W-1179 (not illustrated). Hajoca No. 467-8 closet as Plate W-1177, except with round raised rear vent and Vitreo china long round vent flange . . . \$



Plate W-1177



Plate W-1184

Plate W-1184. Hajoca No. 465
 "Strongflow" Vitreo china syphon wash-
 down closet, floor screws, No. 821 oak
 seat with cover, No. 820 oak tank with
 double-acting top front lever, 10-ounce
 copper lining, $\frac{3}{8}$ -inch nickel-plated No.
 12 gauge supply pipe and 5 x 6-inch bent
 flush connection.

As described.....\$
 Same, with No. 822 tank with
 lever underneath, 12-oz. lining \$

THO the wooden copper lined tank has
 generally given place to Vitreo china
 tanks, there are certain building con-
 structions in which wooden tanks are
 still used, and it is for such requirements
 that this combination is furnished.

IN Plate W-1186 some of the dependable
 features and substantial parts of the
 Hajoca No. 44 ball cock are shown in
 larger detail.

This device is of an improved design
 and made with exacting precision to
 operate quietly and efficiently under high
 or low pressures. By means of the
 mechanical pressure exerted thru the
 compound levers, the valve shuts off
 tight and prevents hissing and leaking.

By removing the pins the plunger can
 be easily taken out without disconnecting
 the ball cock, should rewashing become
 necessary. Attention is directed to the
 "elevated" feature and its convenience
 when repairs are made.

The steadily increasing sales and popu-
 larity of Hajoca closet combinations are
 due in a large measure to the care taken
 in making and installing the ball cocks
 and flush valves used in our tanks.

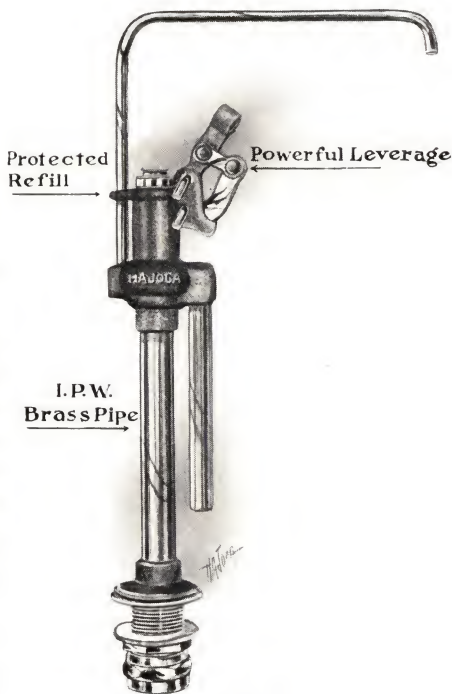


Plate W-1186
 Showing the Hajoca No. 44 ball cock used in No.
 418, No. 220, No. 822 and No. 820 tanks

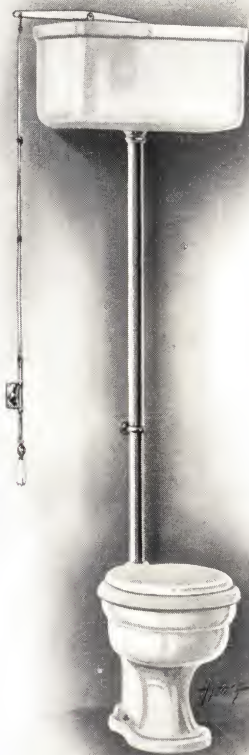


Plate W-1200

Hajoca No. 528 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 floor plate and bolts, No. 826 white Ivoroid saddle seat with cover, No. 468 Vitreo china tank, concealed hangers, nickel-plated link chain with guide and china pull, 1½-inch flush pipe with pedestal bumper strap.

As described.....\$

Same, with No. 826 golden quartered oak seat and cover.....\$

Plate W-1201 (not illustrated). Hajoca No. 528-8 closet as above except with round raised rear vent with Vitreo china short round vent flange and No. 826 white Ivoroid saddle seat with cover....\$

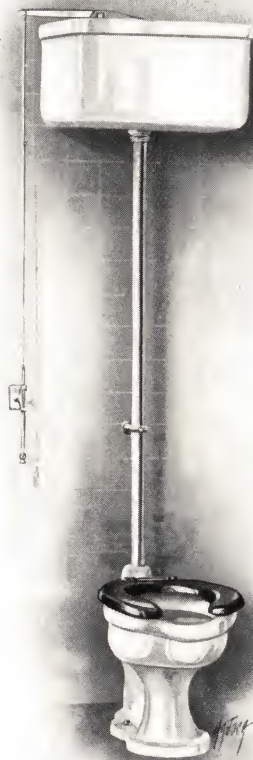


Plate W-1202

Hajoca No. 530 "Liberty" Vitreo china full syphon jet closet with projected flushing rim at front and back of rim recessed, No. 50 floor plate and bolts, No. 821-6 oak open front seat (no cover), No. 468 Vitreo china tank, concealed hangers, nickel-plated link chain with guide and china pull, 1½-inch flush pipe with pedestal strap.

As described.....\$

THE No. 530 closet bowl commends itself for public service requirements. The top of bowl is very roomy from front to back and this long opening lessens the chances of soiling the china.



Plate W-1204

Hajoca No. 530-8 "Liberty" Vitreo china full syphon jet closet with projected flushing rim at front and back of rim recessed, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), No. 268 tank, porcelain enameled inside, with non-condensing exterior finish, nickel-plated link chain with guide and china pull, 1½-inch flush pipe with pedestal strap.

As described.....\$

Same, with No. 840-2 white Ivoroid seat (no cover).....\$

THE "Liberty" closet with projected flushing rim in front and round raised rear vent is an excellent design for public service. The bowl has a long opening and gives more open space and less chance for soiling than the ordinary closet.



Plate W-1206

Hajoca No. 516 "Clearbore" Vitreo china back inlet syphon jet closet with projected flushing rim at front and back of rim recessed, floor screws, No. 821-6 oak open front seat (no cover), No. 268 tank, porcelain enameled inside, with non-condensing exterior finish, nickel-plated rod with guide and china pull, 1¼-inch offset flush pipe with strap and 1¼-inch slip joint ell.

As described.....\$

For No. 50 brass floor plate and bolts, add.....\$

SOME architects and engineers use the method of ventilating closets as shown in Plate W-1206. A Japanned iron ventilating grill is placed back of each closet. Thru this grill a constant stream of air is drawn into the duct.

HAJOCA CLOSETS WITH ROUND RAISED REAR VENTS

WATER closets equipped with the Hajoca round raised rear vent present several marked advantages.

First—The vent passage is of ample area, and because of its design aids the normal course of the air currents.

Second—The internal construction is such that should there ever be a bowl stoppage the water will not back up into the vent duct.

The style of vent flue to be employed is a problem which varies with the type of building, and has much to do with a thoro ventilation of the closet and toilet room. One of the chief requisites for the successful ventilating of closet bowls is an ample and continuous flow of air thru the vent channel and to secure such the ventilating duct should have sufficient area to take care of all bowls attached to it and a vigorous draft of air drawn thru it continuously.

In private residences and other buildings in which there are but few fixtures continuous vent pipes of sheet metal from the closets to the exterior of the building are generally used (compare Plate W-1210).

In larger installations, such as hotels, office buildings, schools, railway and public comfort stations, particularly where the bath or toilet rooms adjoin or are placed one above another on the various floors, the vents from the closets usually enter a vent shaft or chamber (compare Plates W-1316, W-1317). From these chambers or corridors large ducts carry the air currents out of the building. The utility corridor, in addition to serving as a vent chamber, often contains the closet tanks or flushing valves, also the necessary piping; here they are concealed from view and cannot be tampered with by the public. When closets are placed in double batteries, a single corridor or shaft can be made to ventilate both lines of fixtures, thereby saving both floor space and cost of installation (compare Plate W-1255).

For further information about closets with Hajoca large vents, see pages 175 and 207; see also various vented closet outfits illustrated on the preceding and following pages.

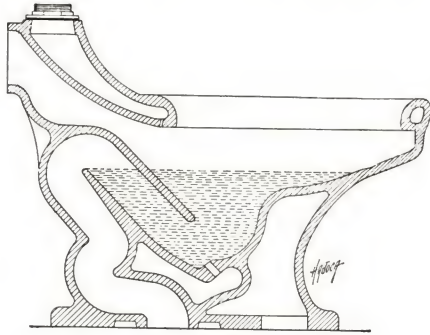


Plate W-1208

Sectional view of Hajoca No. 530-8 closet with round raised rear vent

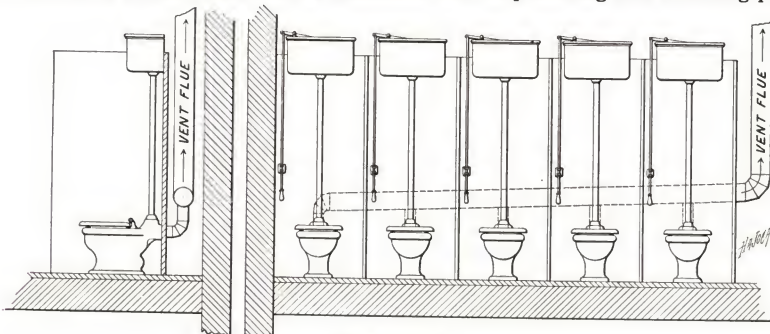


Plate W-1210

Battery of closets with Hajoca vents



Plate W-1214

Hajoca No. 565 "Strongflow" Vitreo china syphon washdown closet, floor screws, No. 821 oak seat with cover, No. 868 gloss finish plain antique oak tank with 10-ounce copper lining, concealed hanger, nickel-plated chain and pull, 1¼-inch offset flush pipe with bumper strap and 1¼-inch slip joint ell.

As described.....\$

BY the proper construction and placement of its trap, the "Strongflow" syphon washdown bowl is one of especially strong flushing action. The seat and tank combine to make the above outfit a dependable selection for moderate price work.



Plate W-1218

Hajoca No. 567 "Strongflow" Vitreo china syphon washdown closet with projected flushing rim at front, floor screws, No. 821-6 oak open front seat (no cover), No. 268 tank, porcelain enameled inside, painted white outside, nickel-plated rod with guide and china pull, 1¼-inch offset flush pipe with strap and 1¼-inch slip joint ell.

As described.....\$

IN the Hajoca No. 567 closet the sanitary features of the projected flushing rim in front have been incorporated into the syphon washdown type of bowl.



Plate W-1220

Hajoca No. 553 Vitreo china extra heavy syphon washdown closet with jet, No. 50 floor plate and bolts, No. 839 rubbed finish oak self-raising seat with bronzed iron cube counterweights (no cover), No. 268 tank, porcelain enameled inside, painted white outside, nickel-plated rod with guide and china pull, 1¼-inch offset flush pipe, bumper strap and 1¼-inch slip joint ell.

As described.....\$

IN public and factory installations the closet is frequently used also as a urinal and for such the weighted self-raising seat is desirable. The weights keep the seat in an upright position when not in use.



Plate W-1224

Hajoca No. 553-S Vitreo china extra heavy syphon washdown closet with jet, integral seat and non-fouling rear extension, No. 50 floor plate and bolts, No. 268 tank, porcelain enameled inside, with non-condensing exterior finish, nickel-plated rod with guide and china pull, 1¼-inch offset flush pipe with strap and 1¼-inch slip joint ell.

As described.....\$

THE practical advantages of our integral seat, shown above, will be clear at a glance. It is desirable for installations where wooden seats are liable to be maliciously or otherwise broken.



Plate W-1230

Hajoca No. 546 "Selflush" Vitreo china full syphon jet closet, No. 50 floor plate and bolts, No. 837 rubbed finish oak seat with heavy semi-box hinge and No. 1 reinforcing plate, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, bumper strap and slip joint ell (supply pipe extra).

As described.....\$

Plate W-1232 (not illustrated). Hajoca No. 546½ "Selflush" closet as above, except Junior height, (13 inches) . \$

When desired, the above closets can be furnished with round raised rear vents with Vitreo china short round vent flanges (compare Plate W-1240).

FOR schools and Juvenile institutions the Junior height closet is desirable.

FOR certain types of factory and public school toilet rooms, common sense urges the installation of closets self-flushing as far as possible as a check against the carelessness of the indifferent user and the forgetfulness of the young. Hajoca pressure tank closets are designed for such work.

The method of operation is as follows. When the seat is occupied the valve opens and allows the water to enter the pressure tank. This continues until the compressed air equalizes the water pressure and the flow stops. When the seat is released, the valve closes and the water from the tank with the pressure of the compressed air behind it descends and flushes the closet bowl.

The seat-action valve is placed in the earthenware shelf at the side and being locked in this position is both tamper and pilfer-proof. The ease of access to the valve is a practical convenience to the workmen when connecting up the piping and makes rewashing an easy matter. Working parts of the valve can be taken out from the top of the bowl without disconnecting the piping; these parts are sturdy in design to stand the hard usage of public service and are carefully made and adjusted to do their work.

To operate properly these closets require a minimum pressure of 20 pounds at the valve and an ample volume of supply. Under these conditions the closet will successfully operate, give a thoro automatic flush every time the seat is released after use and continue this satisfactory service at the least cost of upkeep and with an economical consumption of water.



Plate W-1236

Hajoca No. 547 "Selflush" Vitreo china full syphon jet closet with projected flushing rim at front, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, strap and slip joint ell (Supply pipe extra).

As described.....\$

Plate W-1238 (not illustrated). Hajoca No. 547½ "Selflush" closet as above, except Junior height, (13 inches)...

To operate properly, these closets require a minimum pressure of 20 pounds at the bowl and an ample volume of supply.

THE sanitary advantages of the Hajoca No. 547 and No. 547-8 closet will be clear at a glance. The projected front rim gives much more open space and less chance for soiling than the ordinary closet bowl. Free and ample ventilation is provided by the large vent in Plate W-1240.

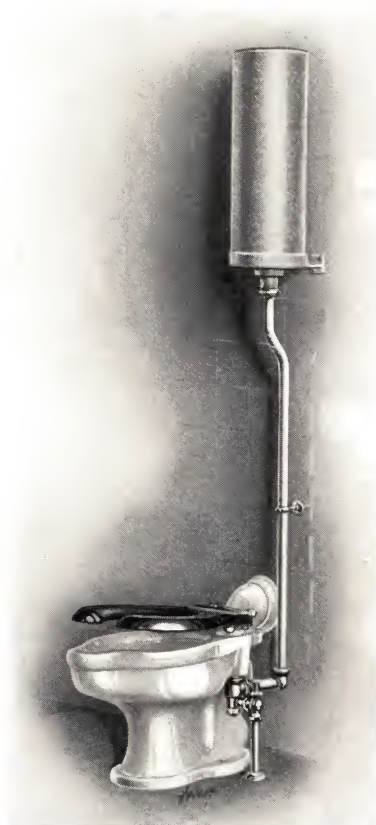


Plate W-1240

Hajoca No. 547-8 "Selflush" Vitreo china full syphon jet closet with projected flushing rim at front, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, strap and slip joint connection (supply pipe extra).

As described.....\$

Plate W-1242 (not illustrated). Hajoca No. 547½-8 "Selflush" closet as above, except Junior height, (13 inches)...

IN its automatic flushing operation the "Nu-Matic" closet is identical with the "Selflush" illustrated and described on pages 194-195, the difference being in the type of bowl used.

Either type flushes the bowl automatically after use and nullifies the indifference of the young, careless and ignorant in their failure to flush voluntarily closets in schools, public places and factories.

The flush valve is positive and can be relied upon to give dependable service. Every part of the working mechanism has been carefully designed; there are no intricate or frail parts to get out of order or be broken. When rewashing is necessary, it can be done by taking the valve parts from out the top of the earthenware; no piping need be disconnected.

The complete valve is conveniently located at the side and locked in its pocket. The seat with its heavy semi-box hinge is the best in quality for public closets.

For the exacting requirements of public toilet rooms these automatic closets are sanitary necessities; their installation will preserve sweet cleanly conditions and effect many economies in operation and upkeep.

To operate properly, these closets require a minimum pressure of 20 pounds at the bowl and an ample volume of supply.



Plate W-1246

Hajoca No. 556 "Nu-Matic" Vitreo china syphon washdown closet with jet, No. 50 floor plate and bolts, No. 837 rubbed finish oak seat with heavy semi-box hinge and No. 1 reinforcing plate, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, bumper strap and slip joint ell (supply pipe extra).

As described.....\$

Plate W-1248 (not illustrated). Hajoca No. 556½ "Nu-Matic" closet as above, except Junior height, (13 inches) ..\$

When desired, the above closets can also be furnished with the Hajoca round raised rear vents with Vitreo china short round vent flanges (compare Plate W-1252).

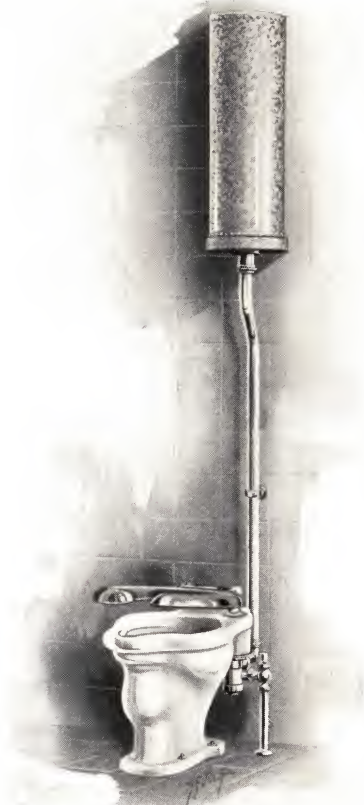


Plate W-1250

Hajoca No. 557 "Nu-Matic" Vitreo china syphon washdown closet with jet and projected flushing rim at front, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, pedestal strap and slip joint ell (supply pipe extra).

As described.....\$

To operate properly, these closets require a minimum pressure of 20 pounds at the bowl and an ample volume of supply.



Plate W-1252

Hajoca No. 557-8 "Nu-Matic" Vitreo china syphon washdown closet with jet and projected flushing rim at front, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 8 automatic seat action flush valve locked in earthenware pocket, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, pedestal strap and slip joint ell (supply pipe extra).

As described.....\$



Plate W-1254

Hajoca No. 571 "Academy" Vitreo china syphon washdown closet with jet, No. 50 floor plate and bolts, No. 839 rubbed finish oak seat with heavy solid clamp hinge and No. 1 reinforcing plate, automatic seat action flush valve at back of closet, loose key stop, galvanized pressure tank with bracket and nickel-plated offset flush pipe, bumper strap and slip joint ell.

As described.....\$

THE "Academy" closet is one of demonstrated merits. It is automatic—giving a thoro flush after use and its reliable service has secured its installation in literally hundreds of representative schools, factories and railroad stations.

As the valve is outside of the closet, it is easy of access for adjustment and re-washing; the inside valve parts can, moreover, be taken out without disconnecting any of the piping.

In design these parts are based on fundamental mechanical principles, carefully made of high grade red brass castings and will stand up successfully under the severest service conditions.

For successful flushing the water pressure at the valve should not be less than 20 pounds minimum and there should be a good volume of supply.

This closet prevents waste of water as the quantity of the flush does not depend upon the whim of the user; there are no pulls, chains, or tank mechanism to get out of order or be removed by the malicious user, consequently the cost of upkeep will be low.

For public places, schools and the like, the automatic closet is considered by sanitarians a necessity and the installation of the "Academy" outfit will prove an important factor in preserving cleanly conditions in such buildings.

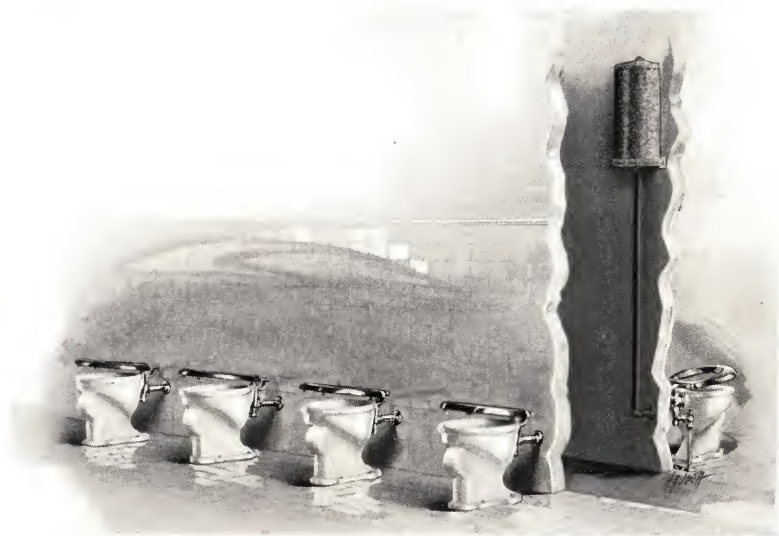


Plate W-1255

Hajoca No. 571 "Academy" Vitreo china syphon washdown closet with jet, No. 50 floor plate and bolts, No. 839 rubbed finish oak seat with heavy solid clamp hinge and No. 1 reinforcing plate, nickel-plated automatic seat action flush valve at back of closet, loose key stop, galvanized pressure tank with bracket and plain brass flush pipe and slip joint ell thru partition to inlet of valve (supply pipe extra).

As described \$

To operate properly, these closets require a minimum water pressure of 20 pounds at the bowls and an ample volume of supply.

IN factories, schools, comfort stations, etc., water closets are often set up in double batteries separated by partitions. As is shown above, the "Academy" closet is well suited for such installations. The pressure tanks and flush pipes are placed in the utility corridor, out of sight yet accessible to the caretaker.

Suggestions as to the suitable sizes and arrangement of piping will be furnished on receipt of necessary data as to the number of closets on each floor, available water pressure, etc.



Plate W-1260

Plate W-1260. Hajoca No. 546 "Selflush" Vitreo china full syphon jet closet, No. 50 floor plate and bolts, No. 837 rubbed finish oak seat with heavy semi-box hinge and No. 1 reinforcing plate, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described. \$

Plate W-1262 (not illustrated). Hajoca No. 546½ "Selflush" closet as above, except Junior height, (13 inches). \$

WHEN desired, Plates W-1260 and W-1262 can be furnished with the Hajoca round raised rear vents with Vitreo china short round vent flanges (compare Plate W-1266).

To operate properly, these closets require a minimum pressure of 20 pounds at the bowl and an ample volume of supply.

Plate W-1264. Hajoca No. 547 "Selflush" Vitreo china full syphon jet closet with projected flushing rim at front, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described. \$

Plate W-1265 (not illustrated). Hajoca No. 547½ "Selflush" closet as above, except Junior height, (13 inches). \$

These closets are entirely automatic in action and are connected direct to the water supply and do not depend upon the filling of a tank. The flushmeter is primed ready for flushing by depressing the seat; when released the seat rises to the position shown and the flushmeter slowly closing, insures a thoro flushing of the bowl. This action takes place as often as the closet is used.

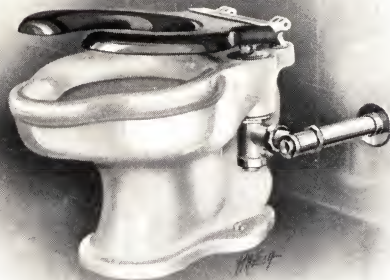


Plate W-1264



Plate W-1266

Plate W-1270. Hajoca No. 556 "Nu-Matic" Vitreo china syphon wash-down closet with jet, No. 50 floor plate and bolts, No. 837 rubbed finish oak seat with heavy semi-box hinge and No. 1 reinforcing plate, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described \$

Plate W-1272 (not illustrated). Hajoca No. 556 1/2 "Nu-Matic" closet as above, except Junior height, (13 inches) . \$

FOR direct connection to the service line the "Selflush" and "Nu-Matic" closets with No. 9 direct pressure automatic flushmeters possess unique advantages. They are compact self-contained units without tank or flush pipe on wall. The flushmeter and connections are especially get-at-able for installation and repair work; only the sturdiest material is used in the making of the seat and valve and as there are no intricate or delicate parts to the flushing mechanism, continuously good service follows their installation, even where conditions are likely to be hardest on closets, in such public places as schools, factories, railroad and public comfort stations.

Plate W-1266. Hajoca No. 547-8 "Selflush" Vitreo china full syphon jet closet with projected flushing rim at front, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described \$

Plate W-1267 (not illustrated). Hajoca No. 547 1/2-8 "Selflush" closet as above, except Junior height, (13 inches) . \$

To operate properly, these closets require a minimum water pressure of 20 pounds at the bowl and an ample volume of supply.



Plate W-1270



Plate W-1274

Plate W-1274. Hajoca No. 557
 "Nu-Matic" Vitreo china syphon wash-down closet with jet and projected flushing rim at front, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described.....\$

To operate properly, these closets require a minimum pressure of 20 pounds at the bowl and an ample volume of supply.

For public service many sanitarians strongly recommend the installation of automatic seat action closets. Such outfits positively insure cleanliness in the public toilet room and are proof against the forgetfulness of the young and the ignorance or carelessness of the old.

Plate W-1275. Hajoca No. 557-8
 "Nu-Matic" Vitreo china syphon wash-down closet with jet and projected flushing rim at front, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 837-6 rubbed finish oak open front seat with heavy semi-box hinge, nickel-plated No. 9 automatic seat action flush meter locked in earthenware pocket, and loose key angle stop (supply pipe to wall or floor extra).

As described.....\$

HAJOCA round raised rear vents are of ample area and are designed to materially aid the normal course of air currents. The internal construction is such that should there ever be a bowl stoppage, the water will not back up into the vent duct.



Plate W-1275

HAJOCA "ROYAL" FLUSH VALVES

FOR the flushing of Water Closets, the Hajoca "Royal" Flush Valve possesses many advantages, especially for public and office buildings where space-saving, freedom from service interruption and lasting durability are required.

Installation Advantages. The mechanism is compact, taking up much less space than a tank. It is easy to install. It is made almost wholly of bronze and will stand severe service. It has only a small surface to be kept clean. It is not liable to be broken.

Flushing Advantages. It gives a thoro flush, repeating as often as wanted. The volume is the same at each flush, not too much at one time, or too little the next. The valve cannot be held open to waste water.

Construction. It is built on a superior diaphragm principle with a preliminary and main action. The mechanism is sturdy and free from complicated parts. It works without friction, because there are no tight fitting parts. The handle is an oscillating lever, and is not directly connected to the internal valve parts. A gentle push in any direction gives the flush; the youngest school child can operate it.

Service. Its service has always been supremely successful, because the valve as a complete unit is designed and made on correct hydraulic and mechanical principles. Such service can be universally guaranteed when the valve is properly installed. For these reasons it is specified by representative architects, engineers and plumbing contractors, and is daily giving superior service in many installations.

Universal in Application. Tho the illustrations, herewith, show only a few designs, the Hajoca "Royal" Flush Valve can be furnished for top, back or side inlet bowls; with lever handles or push button at front, right or left hand side; with inlets at back, right or left hand side; with valve exposed or concealed. Our Engineering Department will gladly co-operate in preliminary plans and recommend the best design for any given conditions. To render such service we should receive information as to the number and location of fixtures, water pressure, length of supply pipe and other necessary information. A sketch should accompany inquiry.

Loose Key Stops. We consider the loose key stop indispensable and recommend it universally with the Hajoca "Royal" Flush Valve. It permits shutting off the water from any individual fixture without interfering with the service to other fixtures.

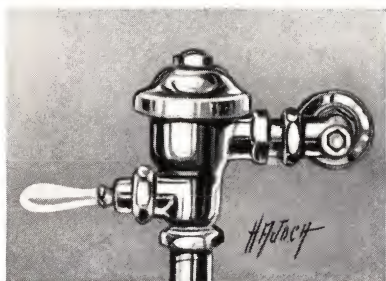


Plate W-1304

Plate W-1304. Nickel-plated Hajoca Royal flush valve, right-hand side inlet, with 1-inch angle stop, china oscillating side handle, 1 1/2-inch straight flush connection, coupling nut and flanges.

As described.....\$

Plate W-1305 (not illustrated). Nickel-plated Hajoca Royal flush valve as above, except with 1 1/4-inch elbow flush connection for back inlet bowl.

As described.....\$

FOR the successful operation of closet bowls equipped with Hajoca Royal Flush Valves an ample volume of water is required. In large installations this is usually obtained from a storage tank placed at the top of the building. However, the supply may be taken direct from the main, provided a large tap and supply pipe are used and sufficient pressure and volume can be obtained.

A 1 1/2-inch supply pipe with direct vertical fall from the tank is usually sufficient for from one to four closets. For larger numbers, or where there are long horizontal runs, this size must be increased, while in high buildings the sizes may be reduced on the lower floors. The size of the branches on each floor will be governed by the number of fixtures to be supplied.

The storage tank should be placed at least 12 feet above the highest valve, with a minimum of elbows, fittings or horizontal pipe. If fittings or horizontal runs prevail to any extent, the elevation of the tank must be increased. Detailed information will be gladly furnished as to how high the tank should be elevated, its capacity, etc., on receipt of necessary data.

For connection direct to the city service or to storage tank, the size of pipe required to supply any installation of Hajoca Royal Flush Valves will be furnished on receipt of a sketch giving the following information: number and location of flush valves, minimum pressure at each flush valve, length of supply pipe from each flush valve to street main or storage tank.

All piping for Hajoca Royal Flush Valves should be run direct with as few ells as possible. All pipe joints should be reamed and shut-off valves should have full size openings.



Plate W-1311

Plate W-1312. Hajoca No. 530 "Liberty" Vitreo china full syphon jet closet with projected flushing rim at front and back of rim recessed, No. 50 floor plate and bolts, No. 821-6 oak open front seat (no cover), nickel-plated Royal flush valve, side inlet, with 1-inch angle stop to wall, china oscillating side handle, 1 1/2-inch straight flush connection, coupling nut and flanges and wall seat bumpers.

As described.....\$

THIS closet has the distinctive sanitary projected flushing rim at the front and is equipped with the open front seat. This produces a long, roomy opening from front to back, and lessens the chance of soiling the Vitreo china. For these reasons this closet is growing in greater demand for residential as well as for public installations.

Plate W-1311. Hajoca No. 528 "Liberty" Vitreo china full syphon jet closet with back of rim recessed, No. 50 floor plate and bolts, No. 826 white Ivoroid saddle seat with cover, nickel-plated Royal flush valve, side inlet, with 1-inch angle stop to wall, china oscillating side handle, seat bumper, 1 1/2-inch straight flush connection, coupling nut and flanges.

As described.....\$

Same, with No. 826 golden quartered oak seat and cover.....\$

FOR public buildings the Royal flush valve is singularly suited. It gives a flush as often as wanted. It prevents waste of water, and lessens up-keep cost.



Plate W-1312



Plate W-1314

Plate W-1314. Hajoca No. 530-8
 "Liberty" Vitreo china full syphon jet closet with projected flushing rim at front and back of rim recessed, round raised rear vent with Vitreo china short round vent flange, No. 50 floor plate and bolts, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), nickel-plated Royal flush valve, side inlet, with 1-inch angle stop to wall, china oscillating side handle, 1½-inch straight flush connection, coupling nut and flanges.

As described.....\$

Same, with No. 840-2 white
 Ivoroid seat (no cover).....\$

The No. 840-2 hygienic divided seat without cover is provided with stops on the hinge, so that no bumper is necessary.

THE Hajoca large, round, raised rear vent is exceptionally efficient and provides an ample ventilating course, upwards and out, without any ridges or barriers to hamper the natural direction of air currents.

Ventilation in toilet rooms should be obtained thru ducts operated exclusively to remove vitiated air and odors from such rooms. The system should operate continuously during using hours.

Good practice calls for an exhaust powerful enough to induce a gentle, continuous inflowing of air from adjacent areas, so that the toilet room is not only ventilated thereby, but double prevention offered against the odors penetrating to other rooms.

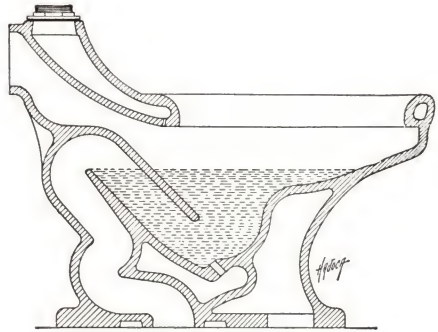


Plate W-1315

Sectional view of the Hajoca No. 530-8 closet showing the round raised rear vent

HAJOCA VENTED CLOSETS and the VENTILATION OF TOILET ROOMS

THE practice which prevails in the ventilation of toilet rooms is somewhat different from that which is frequently used in ventilating other parts of a building. In the latter case, the fresh air is generally forced into the room; while in toilet and bath rooms it is usual to draw out the contaminated air from a point near its source.

For this purpose there is no better method than the use of closets with the Hajoca extra large raised rear vents. These types have unobstructed air passages of ample areas. The outlets of the vent passages are higher than the tops of the rims of the bowls, thus preventing the possibility of the vent ducts becoming choked in case of accidental stoppage of the closet.

A continuous upward and outward movement of air thru the closet vents and ducts is essential if the ventilation is to be of any value. To secure this, various methods are employed. In private residences in which there is a heated flue, as from a kitchen range, the vent duct is carried into the flue, or run up alongside of it, where the heat of the chimney will produce a continuous rising current of air. In the absence of a heated flue, a good ventilator at the top of the vent shaft will sometimes serve for a limited number of fixtures. For larger installations, upward currents are produced by placing near the bottom of the shaft a steam coil or other artificial means of heating the air and causing it to rise, or by an exhaust fan at the upper end of the duct.

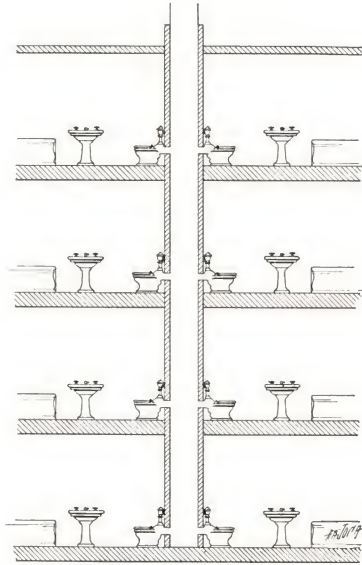


Plate W-1316
Showing vent duct for hotel, apartment house or office building installation, with Hajoca vented closets

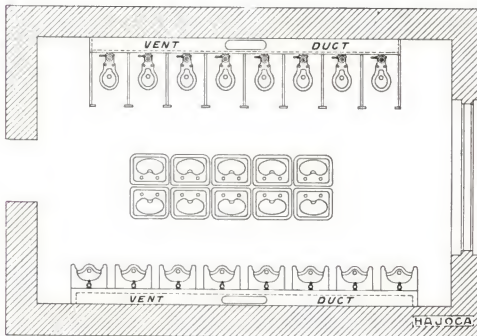


Plate W-1317
Plan of public toilet room equipped with Hajoca vented closets and urinals

The connections from the closet vents to the wall are made by means of Vitreo china vent flanges.

Care should be exercised in constructing vent ducts to make them of sufficient size. For a single closet they should be fully as large as the vent passage in the bowl, and as other fixtures are added to the duct, its area should be increased in proportion.

For further information about vented closets and vent installations see pages 175 and 191.



Plate W-1318

Plate W-1318. Hajoca No. 516 "Clearbore" Vitreo china back inlet syphon jet closet with projected flushing rim at front and back of rim recessed, floor screws, No. 821-6 oak open front seat (no cover), concealed Royal flush valve, side inlet, with 1-inch straight stop, china oscillating handle with wall flange and 1¼-inch elbow flush connection thru 1-inch partition, coupling nut, flanges and wall bumpers for open front seat; all exposed parts nickel plated.

As described.....\$

When the partition or wall is more than 1 inch thick, specify the thickness on order. Unless otherwise ordered, flush valves concealed behind wall are furnished for a 1-inch partition.

Concealing the flush valve makes this fitting inconspicuous and prevents tampering. As shown above, the valve may be concealed in the vent chamber or in the utility corridor.

SOME architects and engineers use the method of ventilating closets as shown in Plate W-1318. The Japanned ventilating grill is placed back of each closet. Thru this grill a constant stream of air is drawn into the duct and out thru an exhaust system.

Plate W-1320. Hajoca No. 553 Vitreo china extra heavy syphon washdown closet with jet, No. 50 floor plate and bolts, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), nickel-plated Royal flush valve, side inlet, with 1-inch angle stop to wall, china oscillating side handle, 1¼-inch elbow flush connection, coupling nut and flanges.

As described.....\$

The No. 840-2 hygienic divided seat without cover is provided with stops on the hinge, so that no bumper is necessary.

Plate W-1322 (not illustrated). Hajoca No. 553-S closet as above, except with Vitreo china integral seat and non-fouling rear extension.....\$

The No. 553 closet is very strong and its syphonic action is strengthened by a jet. It is recommended for public and industrial purposes where service conditions are likely to be severe or rough.



Plate W-1320



Plate W-1324

Plate W-1326. Hajoca No. 553 Vitreo china extra heavy syphon washdown closet with jet, floor screws, No. 821-6 oak open front seat (no cover), No. 90 brass push button flushing valve and elbow connection (pipe to wall not included).

As described.....\$

Plate W-1328 (not illustrated). Hajoca No. 553-S closet as above, except with Vitreo china integral seat and non-fouling rear extension, as shown on Plate W-1224.....\$

FOR factories and similar places, closets Plates W-1326 and W-1328 have proved exceptionally dependable. The flush valve is made to meet the roughest usage and gives a strong, efficient flush. It is conveniently placed at the side. For successful operation there should be water pressure of at least 20 pounds at the bowl and an ample volume of supply.

Plate W-1324. Hajoca No. 567 "Strongflow" Vitreo china syphon wash-down closet with projected flushing rim at front, floor screws, No. 821-6 oak open front seat (no cover), nickel-plated Royal flush valve, side inlet, with 1-inch angle stop to wall, china oscillating side handle, 1¼-inch elbow flush connection, coupling nut and flanges and wall bumpers for open front seat.

As described.....\$

IN the Hajoca No. 567 closet the sanitary advantages of the projected flushing rim in front have been applied to the syphon washdown type of closet. This insures a long opening from front to back and lessens the chance of soiling the bowl or seat. For these reasons this design of closet is steadily growing in favor for all classes of work.



Plate W-1326

HAJOCA WALL CLOSETS

HAJOCA "Walbilt" closets have distinctive sanitary features which make them specially suited for office buildings, railroad stations, hospitals, club houses, schools, etc.

1. There is no joint between the closet and floor. The space underneath the bowl is accessible to mop or hose, and the entire floor can be kept sweet and clean. Unobstructed floor space without crevice or seam is thus possible with Hajoca "Walbilt" closets.

2. It is a space saver, requiring less room from wall to front of bowl than usual types of floor closets.

3. There is no wasted or inaccessible open space back of the closet to harbor dirt. Its installation insures clean toilet room floors and walls.

4. The bowl is a powerful one of the jet-acting type, insuring flushing efficiency with a minimum volume of water. Cleanliness is attained without waste. As the outlet channel is larger in bore than the entrance and without any constrictions, any waste matter passing the entrance will readily flush thru the closet and cannot possibly clog.

5. The bowl is supported wholly by a heavy cast iron supporting chair with bolts and there is no strain put on the wall or pipe line. Our supporting chair will hold a load far in excess of what may ever be put on the closet.

Our wall closets are connected directly to the soil pipe line by means of a heavy cast brass lead pipe collar connection. The connecting lead pipe provides amply for

any possible settling of the floor or wall and the expansion and contraction of the iron waste lines. This flexibility of the lead pipe prevents breakage of the bowl from any of the above causes; the connection is designed so as to prevent the escape of sewer gas, and is furnished with a plumbago-asbestos gasket.

The wall base of each closet is ground smooth, insuring a close, snug finish against the side wall of the room.

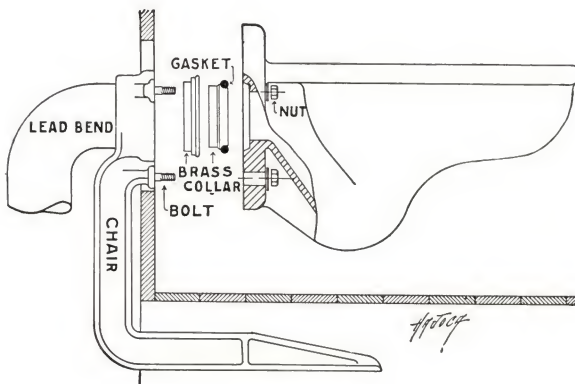


Plate W-1350

Showing Hajoca "Walbilt" closet, cast iron supporting chair and heavy cast brass lead pipe outlet collar connection.



Plate W-1352

Plate W-1352. Hajoca No. 593 "Walbilt" Vitreo china wall closet with projected flushing rim at front and side inlet, concealed heavy cast iron supporting chair with bolts, heavy cast brass 4-inch lead pipe outlet collar connection and plumbago-asbestos gasket, No. 840-6 hand polished golden quartered oak open front seat (no cover), nickel-plated Royal flush valve, back inlet with 1-inch straight stop to wall, china oscillating front handle, 1¼-inch offset flush ell connection, coupling nut and flanges.

As described.....\$

Same, with No. 840-6 white Ivo-roid seat (no cover).....\$

The No. 840-6 seat when furnished without cover is provided with stops on the hinge, so that no bumper is necessary.

Plate W-1354 (not illustrated). Hajoca No. 591 "Walbilt" closet as above, except without projected flushing rim at front.....\$

The stop valve is essential with each flush valve. It permits regulating the flow of water and cutting off a single unit from a line without interrupting water service to other fixtures on the line.

Plate W-1356. Hajoca No. 593-6 "Walbilt" Vitreo china wall closet with projected flushing rim at front, large oval raised rear vent and side inlet, concealed heavy cast iron supporting chair with bolts, heavy cast brass lead pipe outlet collar connection and plumbago-asbestos gasket, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), concealed Royal flush valve, side inlet, with 1-inch straight stop, china oscillating handle with wall flange and 1¼-inch elbow flush connection thru 1-inch partition, nickel-plated pipe, ell, coupling nut and flanges; all exposed parts nickel plated.

As described.....\$

When the partition or wall is more than 1 inch thick, specify the thickness on order. Unless otherwise ordered, flush valves concealed behind wall are furnished for 1-inch partition.

The No. 840-2 seat when furnished without cover is provided with stops on the hinge, so that no bumper is necessary.

The large oval raised rear vent affords ample area for the adequate ventilation of the bowl.

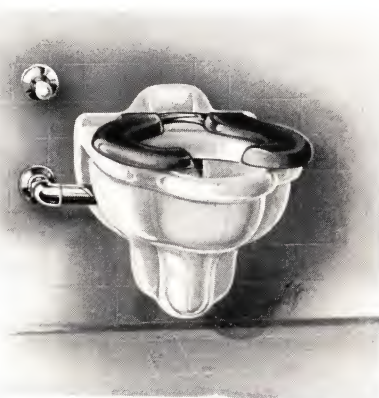


Plate W-1356

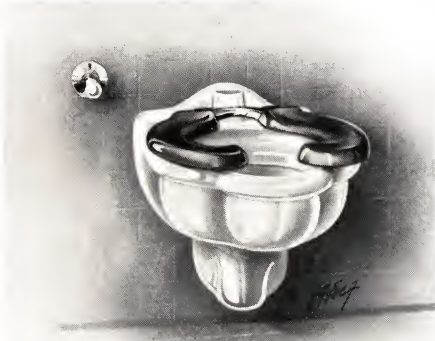


Plate W-1360

Plate W-1360. Hajoca No. 594 "Walbilt" Vitreo china wall closet with projected flushing rim at front and back inlet, concealed heavy cast iron supporting chair with bolts, heavy cast brass 4-inch lead pipe outlet collar connection and plumbago-asbestos gasket, No. 840-2 hand polished golden quartered oak hygienic divided seat (no cover), concealed Royal flush valve, side inlet, with 1-inch straight stop, china oscillating handle with wall flange and 1¼-inch concealed elbow flush connection thru 1-inch partition and coupling nut. All exposed parts nickel plated.

As described\$

When the partition or wall is more than 1 inch thick, specify the thickness on order. Unless otherwise specified, flush valves concealed behind wall are furnished for 1-inch partition.

The No. 840-2 seat when furnished without cover is provided with stops on the hinge, so that no bumper is necessary.

Plate W-1362 (not illustrated). Hajoca No. 592 "Walbilt" closet as above, except without projected flushing rim at front\$

Plate W-1364. Hajoca No. 598 "Walbilt" Vitreo china wall closet, concealed heavy cast iron supporting chair and bolts, heavy cast brass 4-inch lead pipe collar connection and plumbago-asbestos gasket, No. 837 rubbed finish oak seat with heavy semi-box hinge and No. 1 reinforcing plate, nickel-plated No. 9 automatic seat action direct flush meter locked in earthenware pocket and loose key angle stop (supply pipe to wall or floor extra).

As described\$



Plate W-1364

To operate properly the "Walbilt" automatic seat action closet, a minimum pressure of 20 pounds at the bowl and an ample volume of supply are required.



Plate W-1450

Hajoca No. 840 white Ivoroid saddle seat.

	With cover	No cover
As described.....	\$	\$
Same, golden quartered oak.....	\$	\$
Same, birch mahogany color.....	\$	\$



Plate W-1451

Hajoca Whale-Bone-Ite saddle seat.

	With cover	No cover
Ebony.....	\$	\$
Mahogany.....	\$	\$

The Hajoca Whale-Bone-Ite seat is absolutely sanitary, acid proof, indestructible, comfortable and of a fine substantial appearance.

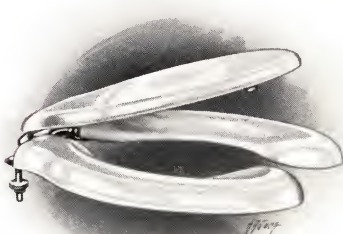


Plate W-1452

Hajoca No. 840-2 white Ivoroid hygienic divided seat.

	With cover	No cover
As described.....	\$	\$
Same, golden quartered oak.....	\$	\$
Same, birch mahogany color.....	\$	\$

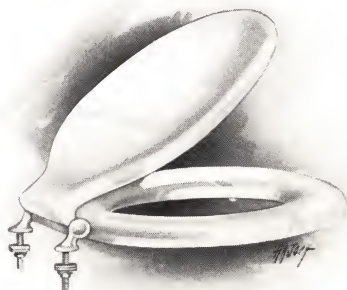


Plate W-1454

Hajoca No. 834 white Ivoroid seat and cover with Ivoroid covered hinges.

As described.....\$

By extending the woodwork of both seat and cover at the rear, a minimum amount of exposed metal for the hinge is required. These metal parts are sunk flush with the woodwork and are finished in white Ivoroid.

Plate W-1453 (not illustrated). Hajoca No. 840-4 hand polished golden quartered oak hygienic divided seat with long front extension and cover.

As described.....	\$
Same, birch mahogany color.....	\$
Same, white Ivoroid.....	\$

When closet bowls with projected front flushing rims require seats with covers, the No. 840-4 or No. 826-4 seat with cover should be specified; when such bowls require seats without covers, the No. 840-2, Whale-Bone-Ite open front, or No. 821-6 seat without cover should be specified.



Plate W-1456

Hajoca No. 826 white Ivoroid saddle seat.	With cover	No cover
As described.....	\$	\$
Same, golden quartered oak.....	\$	\$
Same, birch mahogany color.....	\$	\$



Plate W-1457

Hajoca No. 826-2 white Ivoroid hygienic divided seat.	With cover	No cover
As described.....	\$	\$
Same, golden quartered oak.....	\$	\$
Same, birch mahogany color.....	\$	\$

Plate W-1459 (not illustrated). Hajoca No. 826-4 golden quartered oak hygienic divided seat for projected flushing rim bowl.

	With cover	No cover
As described.....	\$	\$
Same, birch mahogany color.....	\$	\$
Same, white Ivoroid.....	\$	\$



Plate W-1460

Hajoca No. 821 oak round seat.	With cover	No cover
As described.....	\$	\$
Same, birch mahogany color.....	\$	\$
Same, white Ivoroid.....	\$	\$



Plate W-1462

Hajoca No. 821-2 oak hygienic divided seat.	With cover	No cover
As described.....	\$	\$

WE specially recommend white Ivoroid seats. They are handsome in appearance, durable and sanitary to a marked degree, as they may be repeatedly washed with soap and water without losing their lustre and whiteness.



Plate W-1464

Hajoca No. 821-6 oak open front seat.

	With cover	No cover
As described.....	\$	\$
Same, white Ivoroid.....	\$	\$



Plate W-1466

Hajoca Whale-Bone-It open front seat.

	With cover	No. cover
Ebony.....	\$	\$
Mahogany.....	\$	\$

The Hajoca Whale-Bone-It seat is made with a laminated compact core covered with a sealed composition of Whale-Bone-It, which has all the qualities of hard rubber. No joints, will not split, crack or warp and is practically indestructible.



Plate W-1468

Hajoca No. 821-6S oak open front self-raising seat with nickel-plated spring hinges, no cover.

As described.....\$

Plate W-1469 (not illustrated). Hajoca No. 821-S oak self-raising round seat with nickel-plated spring hinges, no cover.

As described.....\$

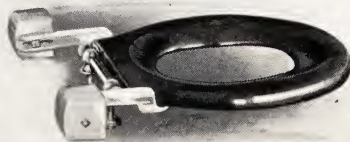


Plate W-1470

Hajoca No. 839 rubbed finish oak self-raising seat with bronzed iron cube counterweights.

As described.....\$

WHEN closet bowls in public places serve also the purpose of urinals, Hajoca self-raising seats are recommended. The spring hinges are heavy and always raise the unoccupied seat to the position shown.



Plate W-1472

Hajoca No. 0 nickel-plated reinforcing plate, with screws, each.....\$



Plate W-1480

Plate W-1480. Hajoca No. 446 Vitreo china tank with china lever underneath, No. 10 Regulo adjustable flush valve, concealed supply with stop and nickel-plated straight flush connection.

Length over all, 22½ inches. \$

THIS is our finest tank. It is equipped with the Hajoca No. 10 Regulo adjustable water - saving flush valve, which insures two consecutive flushes without a refilling of the tank.

The concealed supply enters the tank at the back near the top and eliminates exposed piping. The ball cock is quiet in action, and is equipped with a stop for shutting off the water or controlling the volume whenever that might be necessary.

Hajoca Vitreo china is a beautiful material with a high, lustrous gloss surface easily cleaned and kept in its original attractiveness by wiping occasionally with a damp cloth.

Plate W-1482. Hajoca No. 427 Vitreo china tank with china lever underneath, concealed supply with stop and nickel-plated straight flush connection.

Length over all, 21½ inches. \$

Plate W-1483 (not illustrated; compare Plate W-1482). **Hajoca No. 426** Vitreo china tank with china lever underneath, ¾-inch nickel-plated iron pipe weight supply pipe to wall with wheel handle stop and straight flush connection. Length over all, 21½ inches. \$

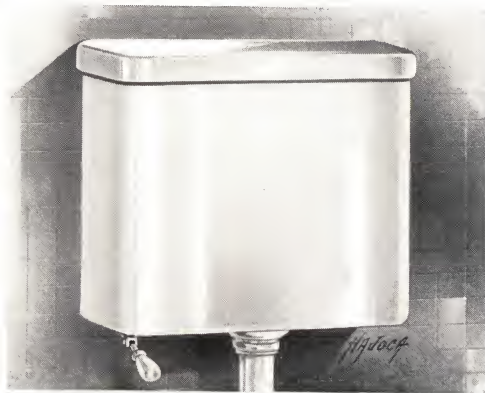


Plate W-1482

THE Hajoca No. 427 and No. 426 tanks have been modeled on plain but artistic lines. They are of ample size; the ball cock and flush valve are of improved design and will give thoroly dependable and satisfactory service and operate quietly under high or low pressures. The bottom lever permits the flushing of the tank with the maximum of ease and convenience.



Plate W-1484

Plate W-1484. Hajoca No. 423 Vitreo china tank with double-acting top front lever, concealed supply with stop and nickel-plated straight or bent flush connection.

Length over all, 21 1/2 inches. \$

Plate W-1485 (not illustrated; compare Plate W-1484). **Hajoca No. 422** Vitreo china tank with double-acting top front lever, 3/8-inch nickel-plated iron pipe weight supply pipe to floor or wall and straight or bent flush connection.

Length over all, 21 1/2 inches. \$

ON the No. 423 and No. 422 tanks, the operating lever is placed near the top. It is double acting, flushing whether turned to the right or left. When desired the supply pipe on the No. 422 tank can be equipped with a wheel handle stop.

Plate W-1486. Hajoca No. 418 Vitreo china tank with double-acting top front lever, 3/8-inch nickel-plated No. 12 gauge supply pipe and straight or bent flush connection.

Length over all, 20 1/2 inches. \$

THE No. 418 Vitreo china tank is an uncommonly good one; the design is attractive, the china is easy to keep spotless and the tank mechanism is built to insure reliable service.

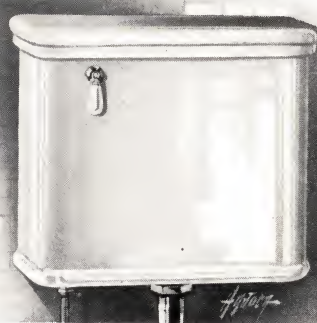


Plate W-1486

Plate W-1488 (not illustrated; compare Plate W-1174). **Hajoca No. 220** tank, porcelain enameled inside and out, with double-acting top front lever, 3/8-inch nickel-plated No. 12 gauge supply pipe and straight or bent flush connection.

Length over all, 21 inches. \$

Plate W-1490 (not illustrated). **Hajoca No. 822** oak tank with china lever underneath, 12-ounce copper lining, 3/8-inch nickel-plated iron pipe weight supply pipe and straight or bent flush connection.

Length over all, 21 inches. \$

Plate W-1492 (not illustrated; compare Plate W-1184). **Hajoca No. 820** oak tank with double-acting top front lever, 10-ounce copper lining, 3/8-inch nickel-plated No. 12 gauge supply pipe and straight or bent flush connection.

Length over all, 21 inches. \$

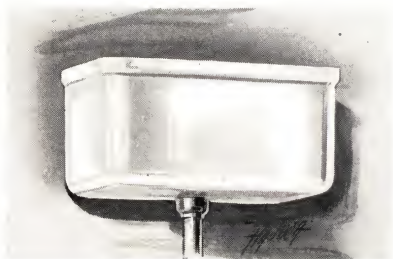


Plate W-1500

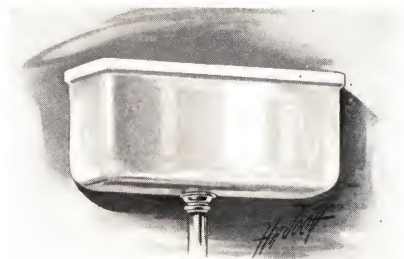


Plate W-1502

Hajoca Vitreo china high tank with concealed wall hangers and nickel-plated chain and oak pull. For sizes, etc., see below.

Hajoca porcelain enameled inside high tank, painted white outside, with nickel-plated chain and oak pull. For sizes, etc., see below.

Plate W-1504 (not illustrated). **Hajoca** piano polished golden quartered oak high tank with 14-ounce copper lining, concealed wall hanger and nickel-plated chain and oak pull. For size, etc., see below.

Plate W-1505 (not illustrated). **Hajoca** gloss finish plain antique oak high tank with 10-ounce copper lining, concealed wall hanger and nickel-plated chain and oak pull. For sizes, etc., see below.

Nominal capacity	6 gallons	8 gallons
Approximate inside dimensions (length, width and depth)	16 x 8 x 11½ inches	18 x 9 x 12 inches
Plate W-1500, as described	No. 466 \$	No. 468 \$
Plate W-1502, as described	No. 266 \$	No. 268 \$
Plate W-1504, as described	—————	No. 888 \$
Plate W-1505, as described	No. 866 \$	No. 868 \$
For nickel-plated link chain with guide and china pull, add	\$	
For No. 110 Regulo valve, add	\$	
For rough nickel-plated compression stop for ball cock, add	\$	
For non-condensing exterior finish on Plate W-1502, add	\$	



Plate W-1508

Hajoca nickel-plated 2-inch straight flush connection (nuts extra; see Plate W-1510), each.....\$

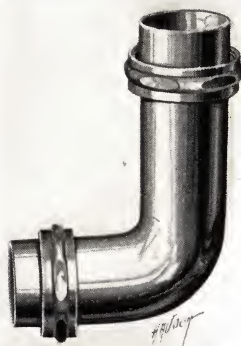


Plate W-1509

Hajoca nickel-plated 2-inch bent flush connection (nuts extra; see Plate W-1510).

5 x 6 inches, each.....\$

6 x 8 inches, each.....\$



Plate W-1510

Hajoca nickel-plated slip joint nut with washer.

1-inch O. D., for 1-inch spud, each.....\$

1 1/4-inch O. D., for 1 1/4-inch spud, each.....\$

1 3/8 or 1 1/2-inch O. D., for 1 1/2-inch spud, each.....\$

2-inch O. D., for 2-inch spud, each, \$

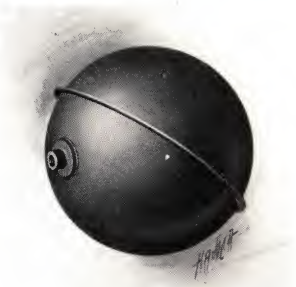


Plate W-1512

Hajoca No-solder copper tank ball.

5-inch, each.....\$

4 x 5-inch, each.....\$

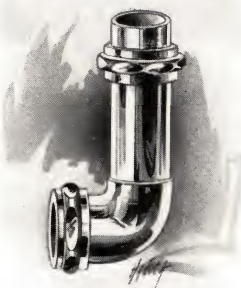


Plate W-1511

Hajoca nickel-plated slip joint ell.

1 1/4-inch O. D., for 1 1/4-inch spud, each.....\$

1 1/2-inch O. D., for 1 1/4-inch spud, each.....\$

1 1/2-inch O. D., for 1 1/2-inch spud, each.....\$

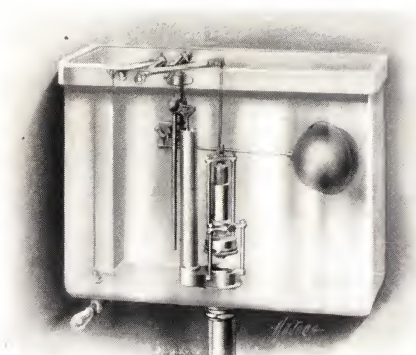


Plate W-1516

Plate W-1516. Hajoca No. 10 Regulo adjustable flush valve for low tank.....\$

Plate W-1517 (not illustrated). Hajoca No. 110 Regulo adjustable flush valve for high tank.....\$

THESE valves meet the demand for a reliable device for flushing water closets quietly and without wasting water. By means of the thumb-screw on the flush valve the length of the flush can be regulated, so that a uniform volume of water will be discharged each time the tank is operated. In this way a considerable saving of water can be effected, by adjusting the valve in each tank to suit the

requirements of the bowl with which it is connected, so as to give just the right amount of water to properly flush out the contents of the closet. The Hajoca No. 10 valve is practically noiseless in operation. The cylinder is "water lubricated" and the relief valve is of large size, thus securing easy operation and preventing the valve from sticking. When used with the Hajoca No. 446 Vitreo china tank, two consecutive flushes can be obtained without refilling the tank.

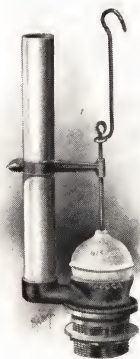


Plate W-1519

Hajoca No. 26 flush valve for low tank.\$

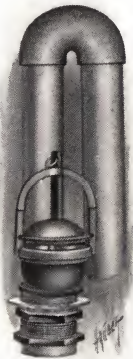


Plate W-1521

Hajoca No. 6 drop flush valve, with return bend syphon, for high tank.....\$



Plate W-1523

Hajoca No. 905 galvanized goose-neck syphon flush valve for high tank,\$

For thimble and lock-nut, add.....\$



Plate W-1524

Hajoca No. 84 elevated compound lever ball cock with refill tube, for low tank.....\$

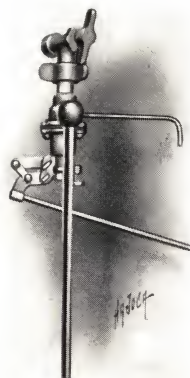


Plate W-1526

Hajoca No. 87 compound lever ball cock, back supply, with refill tube and $\frac{3}{8}$ -inch stop, for low tank.....\$

Attention is directed to the practical merits of our elevated and top supply ball cocks; the working parts are specially get-at-able, a feature of convenience much appreciated by workmen, should it ever be necessary to adjust the parts or replace a washer.

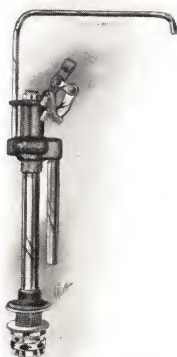


Plate W-1528

Hajoca No. 44 elevated compound lever ball cock, with refill tube, for low tank.....\$

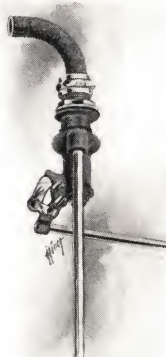


Plate W-1529

Hajoca No. 43 compound lever ball cock, top supply, for high tank....\$

HAJOCA compound lever ball cocks as shown above are designed in accordance with correct mechanical principles and are made with the same care and accuracy of detail and from the same high grade of red metal as our other well-known lines of Hajoca brass work. By means of the compound levers, the pressure exerted by the float is much increased, insuring tight closing, and avoiding waste of water and wear on the seat and washer.

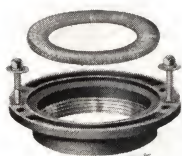


Plate W-1530



Plate W-1531



Plate W-1532



Plate W-1533

Plate W-1530. Hajoca No. 30 heavy cast brass floor plate for 4-inch iron pipe inside thread, with plumbago-asbestos gasket and bolts. \$

Plate W-1531. Hajoca No. 30 heavy cast brass floor plate for lead pipe, with plumbago-asbestos gasket and bolts. \$

Plate W-1532. Hajoca No. 50 cast brass floor plate for lead pipe, with bolts. \$
Same for 3-inch lead pipe, for use with iron pedestal slop sink trap. \$

Plate W-1533. Hajoca iron hopper or closet floor plate \$

Hajoca No. 30 floor plates will make a tight joint with closets having the ordinary style of base and outlet. The plumbago-asbestos gasket will not dry out, deteriorate or harden, and will remain in place and not slip down and clog the closet outlet. The brass plate is constructed so as to be easily adjusted by the plumber to varying thicknesses of the recess in the closet outlet, or to uneven floors, and still secure a tight bearing of the gasket against the bowl and floor plate. Thus all escape of sewer gas at this joint is permanently prevented.



Plate W-1534

Ideal iron closet bend with floor plate.

For standard or medium soil pipe, each. \$

For extra heavy soil pipe, each. \$

Order by number from the following table. The illustration shows Nos. 1 and 9.

Size of inlet	With 2 R. H. inlets	With 2 L. H. inlets	With 1 R. H. inlet	With 1 L. H. inlet	With 1 R. H. & 1 L. H. inlet	No inlets
1½-in. I. P.	No. 1	No. 2	No. 4	No. 5	No. 3	No. 0
2-in. I. P.	No. 9	No. 10	No. 6	No. 7	No. 8	

These bends take the place of the lead bend, brass ferrule, brass floor plate, and solder joints in connecting the water closet to the soil pipe.

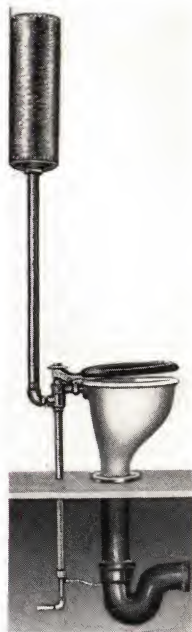


Plate W-1540

Plate W-1540. No. 391 porcelain enameled tall oval flushing rim hopper with seat with iron reinforcing plate, galvanized pressure tank, galvanized flush pipe, brass supply and flush valves and galvanized valve casing extending 30 inches below floor.

As described (not including soil pipe and trap).....\$

Plate W-1541. No. 392 porcelain enameled tall round fan wash hopper, with seat with iron reinforcing plate, brass valve and galvanized valve casing extending 30 inches below floor.

As described (not including soil pipe and trap).....\$

If with self-raising seats, add \$

If with porcelain enameled inside and out hoppers, add \$

THE Nos. 391 and 392 closets are simple and durable, are very easy and economical to install, and are frost-proof. The working parts are inclosed in a casing pipe from which they may be readily withdrawn from above the floor for repairs. The valve can be buried in the ground and requires no pit. There are no cup leathers or ring washers.

The pressure tank furnished with the No. 391 outfit saves waste of water and insures a good strong flush. In the No. 392 outfit the water flows continuously while the seat is occupied.

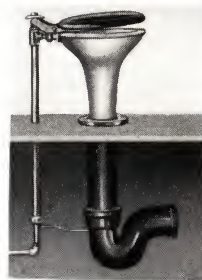


Plate W-1541

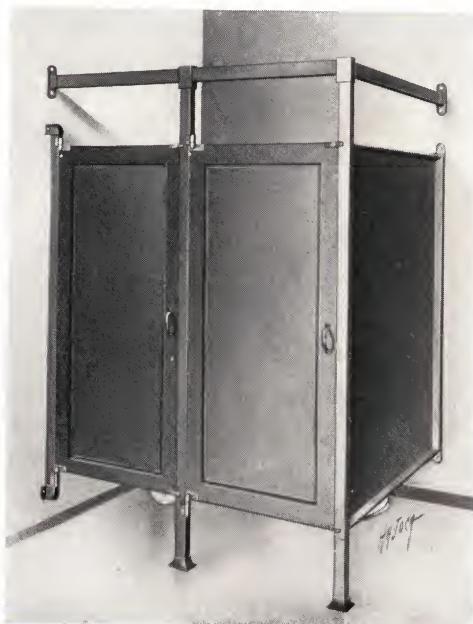


Plate W-1545

Plate W-1545. Hajoca steel closet partitions with head rail, steel doors with black spring hinges, bumper stops, pull, latch, and coat hook.

Dimensions—Width, 30 inches; front to back, 48 inches; height, 60 inches; height of head rail, 84 inches

For single stall for right or left-hand corner.....\$

For single recess stall.....\$

For single open stall (not corner).....\$

For each additional stall.....\$

Hajoca closet partitions are finished in either gray metal filler, or olive green baked enamel. When ordering specify the finish wanted.

THESE roomy and sanitary stalls are most substantially built, and their use will insure a structure as permanent as the building in which they are installed.



Plate W-1550

Hajoca porcelain enameled automatic syphon range closet with individual Vitreo china integral seat bowls, cast iron tank, galvanized flush and air pipes and brass pipe and union couplings connected to the flushing rim of each bowl.

Number of seats	3	4	5	6	7	8
With 24-inch sections	\$	\$	\$	\$	\$	\$
With 27-inch sections	\$	\$	\$	\$	\$	\$
If with pressed steel partitions, add each						\$
For bowls without integral seat, but fitted with Hajoca No. 821 oak seats with covers, add per seat						\$
Same, without seat covers, add per seat						\$

Tanks for the larger sizes of ranges when filled with water are too heavy to hang on the wall and should be suspended from the ceiling. Hangers for this purpose can be furnished at an additional charge.

Platform of slate, marble, etc., extra.

When ordering, state if outlet is to be at right end as shown, or at left end.

Plate W-1550 combines the advantages of the range closet with those of the individual closet of non-absorbent Vitreo china.

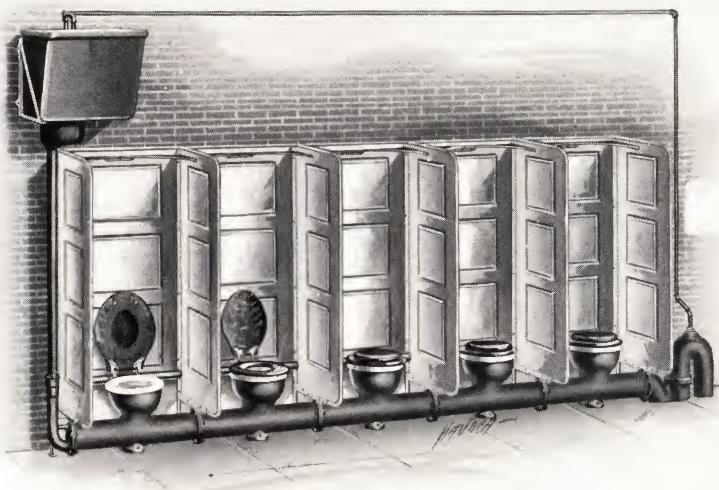


Plate W-1552

Hajoca automatic individual bowl syphon range closet with cast iron tank, galvanized flush and air pipes, brass pipe and union couplings connected to the flushing rim of each bowl, hinged oak seats with concealed reinforcements and covers, and pressed steel partitions and backs.

No. of Seats	With 24-inch seats		With 27-inch seats		With 30-inch seats	
	Painted	Porcelain enameled	Painted	Porcelain enameled	Painted	Porcelain enameled
3	\$	\$	\$	\$	\$	\$
4	\$	\$	\$	\$	\$	\$
5	\$	\$	\$	\$	\$	\$
6	\$	\$	\$	\$	\$	\$
7	\$	\$	\$	\$	\$	\$
8	\$	\$	\$	\$	\$	\$

Unless otherwise ordered, range closet with porcelain enameled interior, 24-inch seats and outlet on right end as shown will be furnished. We recommend the use of porcelain enameled in preference to painted range closets. They are much easier to keep clean.

If without backs, deduct for each back on 24-inch seat, \$; 27-inch seat, \$; 30-inch seat, \$.

If without partitions, deduct for each partition, \$.

If without seat covers, deduct \$ each. If with self-raising seats, add \$ for each seat.

Plate W-1552 can be fitted with one 30-inch seat with private enclosure on inlet end on all sizes of ranges; also with all private enclosures on 27-inch and 30-inch seat ranges only. Prices on application.

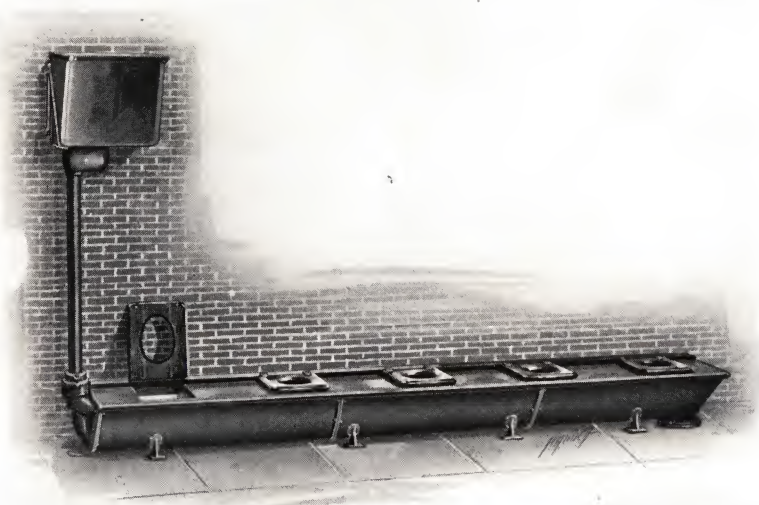


Plate W-1554

Hajoca automatic washout range closet with cast iron tank, galvanized flush pipe, oak top plates and back strips, hinged oak seats with concealed reinforcements and perforated washdown pipes fitted inside of range (brass on porcelain enameled and galvanized iron on painted ranges).

Number of seats	With 24-inch seats		With 27-inch seats		With 30-inch seats	
	Painted	Porcelain enameled	Painted	Porcelain enameled	Painted	Porcelain enameled
2	\$	\$	\$	\$	\$	\$
3	\$	\$	\$	\$	\$	\$
4	\$	\$	\$	\$	\$	\$
5	\$	\$	\$	\$	\$	\$
6	\$	\$	\$	\$	\$	\$
7	\$	\$	\$	\$	\$	\$
8	\$	\$	\$	\$	\$	\$
9	\$	\$	\$	\$		
10	\$	\$				

Unless otherwise ordered, range closet with porcelain enameled interior, 24-inch seats and outlet on right end as shown will be furnished. We strongly recommend the use of porcelain enameled in preference to painted range closets. They are much easier to keep clean.

If with pressed steel partitions, add \$ each. If with pressed steel backs, add for each back on 24-inch seat, \$; 27-inch seat, \$; 30-inch seat, \$. For covers on seats, add \$ each.

If with ventilating extension for 14-inch pipe (pipe to flue not furnished), add for painted range, \$; for porcelain enameled range, \$.

Plate W-1554 can be fitted with one 30-inch seat with private enclosure on inlet end on all sizes of ranges; also with all private enclosures on 27-inch and 30-inch seat ranges only. Prices on application.

HAJOCA URINALS

THO the average person instinctively desires to flush plumbing fixtures after use and will invariably do so when the flushing mechanism can be easily operated, it is in keeping with modern sanitary practice to reduce manual contact to a minimum.

In view of this the practical and hygienic advantages of either the Hajoca No. 84 treadle valve which is operated by pressing with the foot or the Hajoca Royal urinal flush valve which is operated by merely touching with the elbow will be clear at a glance.

Such modern devices remove all public prejudice and insure a thorough flushing of urinals by each user and consequently sweet cleanly conditions in the shop, school or public toilet room when installed with suitable urinals.

Hajoca Regal porcelain stall urinals have proved superior to all other types. Each stall is made in a single piece—back, sides, bottom and drip receptor. The exposed surface is coated with a thick impervious smooth glaze, which is covered by a thin film of water from the spreader at the top every time the fixture is flushed. The urinals are attractive in appearance and easy to maintain.

Many other styles of urinals are also shown in the following pages of this catalog, including Vitreo china bowls, marble and slate stalls, and range and trough urinals. These are all the best of their respective types and will give satisfactory service.

The ventilation of urinals is receiving a growing share of attention on the part of architects, plumbers and sanitary engineers. Such ventilation is generally provided for in connection with the closets installed in the same toilet room—compare page 207. Illustrations and descriptions of several styles of vented urinals and ventilated stalls will be found on the following pages.



Plate W-1602

Hajoca No. 612 "Aquitaine" Regal porcelain stall urinals, each with integral shields and drip receptor, nickel-plated brass inlet connection and spreader, waste connection with removable grate and Hajoca Royal urinal flush valve, side inlet, with $\frac{3}{4}$ -inch angle stop to wall, china oscillating front handle, flush connection, coupling nut and flanges.

Width along wall, each urinal	18 inches	24 inches
From floor to top of urinal	42 inches	44 inches
Each urinal, as described	\$	\$

Hajoca No. 612 Regal porcelain stall urinals represent the most modern and sanitary form of urinal construction; for clubs, hotels, railway and public comfort stations, schools, factories and all public buildings, they are unexcelled.

Each stall is made in a single piece, without joints, and is glazed all over, with ground back, while the integral shields render the use of separate partitions unnecessary. The distance between the stalls is optional, but should be preferably not less than 6 inches to allow easy access for cleaning.

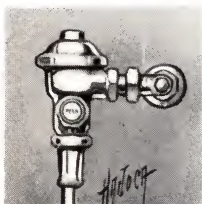


Plate W-1604

Plate W-1604. Nickel-plated Hajoca Royal urinal flush valve, side inlet, with $\frac{3}{4}$ -inch angle stop to wall, china push button, flush connection, coupling nut and flanges, each \$

When desired, china or metal oscillating handles or metal push buttons can be furnished in place of china push buttons.

The Hajoca Royal urinal flush valve is built for public service. The valve gives the same volume of water at each flush and cannot be held open. Waste of water is thereby prevented. For further description of Royal flush valves, see pages 203 and 204.

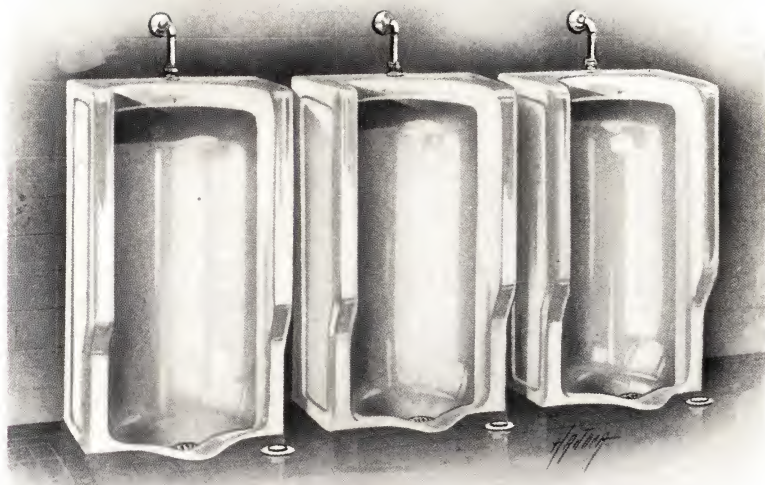


Plate W-1606

Hajoca No. 612 "Aquitaine" Regal porcelain stall urinals, each with integral shields and drip receptor, nickel-plated brass inlet connection and spreader and pipe to wall and flanges, waste connection with removable grate and No. 84 treadle valve concealed in floor; no connecting pipes included.

Width along wall, each urinal	18 inches	24 inches
From floor to top of urinal	42 inches	44 inches
Each urinal, as described	\$	\$

USERS of public toilet fixtures will invariably flush fixtures if there is a convenient way to do this. The Hajoca No. 84 treadle valve will make operative this instinctive desire of the user. It is done by touching with the sole of the shoe; the valve is conveniently placed. Its installation has proved of indispensable worth in many representative railroad stations, public buildings, colleges, schools and factories.

WHILE thoro and constant flushing goes a long way in keeping urinals sanitary, to insure sweet conditions in the public toilet room a practical system of venting each urinal is recommended. This can be done with our specially designed 2-inch cast iron vented trap as shown Plate W-1608. It ventilates the stall and helps also in removing odors from the toilet room. Hajoca vented trap for urinals

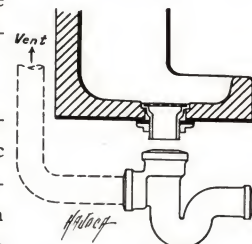


Plate W-1608



Plate W-1610

Hajoca No. 611 "Pleniflush" Regal porcelain stall urinals, each with integral drip receptor, nickel-plated brass inlet connection and spreader and pipe to wall and flanges, waste connection with removable grate and No. 84 treadle valve concealed in floor; no connecting pipes included.

Width along wall, each urinal.....	18 inches	24 inches
From floor to top of urinal.....	42 inches	44 inches
Each urinal, as described.....	\$	\$

THE body of Hajoca Regal porcelain ware is heavy and strong and is coated with a thick glaze which is very smooth and hard. The integral drip receptor in front is set level with the floor, and the entire fixture can be washed by broom or flushed by hose. When urinal stalls without integral shields are desired, the "Pleniflush" design is recommended. The 18-inch width is a popular size for schools and other buildings where the space for the urinals is limited.



Plate W-1611

Plate W-1611. Hajoca No. 611 "Pleniflush" Regal porcelain stall urinal with integral drip receptor, nickel-plated brass inlet connection and spreader, waste connection with removable grate and Hajoca Royal urinal flush valve, side inlet, with $\frac{3}{4}$ -inch angle stop to wall, china oscillating front handle, flush connection, coupling nut and flanges.

Width along wall.....	18 inches	24 inches
From floor to top of urinal...	42 inches	44 inches
As described.....	\$	\$

A MERE touch in any direction operates the oscillating front handle. The Royal flush valve conserves water; it gives the same quantity at each flush, and is so constructed that it automatically closes, even should the lever be held open.

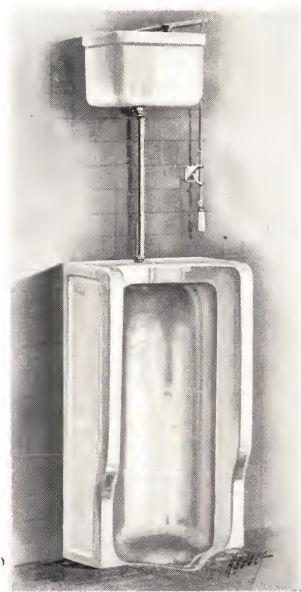


Plate W-1612

Plate W-1612. Hajoca No. 612 “Aquitaine” Regal porcelain stall urinal with integral shields and drip receptor, nickel-plated brass inlet connection and spreader, waste connection with removable grate, No. 462 Vitreo china tank with concealed wall hangers, nickel-plated link chain with guide and china pull and flush pipe.

Width along wall.....	18 inches	24 inches
From floor to top of urinal...	42 inches	44 inches
As described.....	\$	\$

WHERE automatic or pull tanks for urinals are required, the Hajoca Vitreo china tank is recommended. It has no copper lining to corrode; there are no joints or seams to open up with age, it will never wear out or lose its original attractiveness and can be kept clean and white by wiping occasionally with a damp cloth.

Plate W-1614. Hajoca No. 623 “Adjoine” Regal porcelain stall urinals, with Regal porcelain seam cover, each stall with integral drip receptor, nickel-plated brass inlet connection and spreader and pipe to wall and flanges, waste connection with removable grate and No. 84 treadle valve concealed in floor; no connecting pipes included.

Width along wall, each urinal.....	18 inches	24 inches
Center to center of urinals.....	20 inches	26 inches
From floor to top of urinal.....	42 inches	44 inches
Two urinals as described with seam cover.....	\$	\$
For each additional urinal with seam cover.....	\$	\$
Allow 2 inches for each seam cover.		



Plate W-1614

THE “Adjoine” urinals are well suited where space saving is necessary. They adjoin one another and are practically made into an integral battery with the seam covers which fit permanently and closely between the urinals. The work of installing urinals in batteries is much simplified by the use of the “Adjoine.”

For other methods of flushing these urinals, see preceding and following pages.

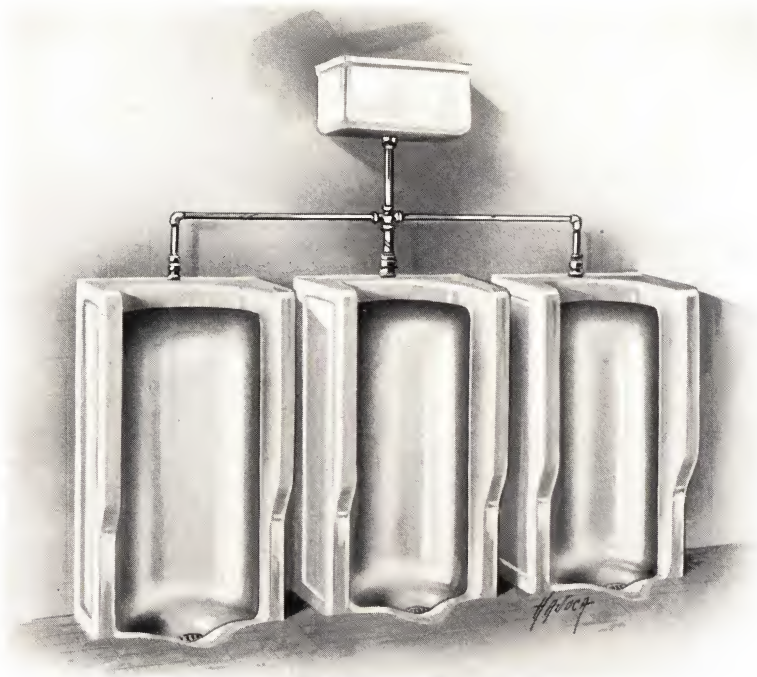


Plate W-1618

Hajoca No. 612 "Aquitaine" Regal porcelain stall urinals, each with integral shields and drip receptor, nickel-plated brass inlet connection and spreader, waste connection with removable grate; and one Vitreo china automatic urinal tank with concealed wall hangers and nickel-plated flush pipe.

Width along wall, each urinal	18 inches	24 inches
From floor to top of urinal	42 inches	44 inches
One urinal with No. 462 tank and single flush pipe	\$	
Two urinals with No. 462 tank and double flush pipe	\$	
Three urinals with No. 466 tank and triple flush pipe	\$	

EACH of these stalls is made in a single piece glazed all over and with back ground smooth. The integral shields provide privacy and render unnecessary the use of separate partitions. The distance between the stalls is optional; they are usually placed not less than 6 inches apart to allow easy access to the sides for cleaning.

The body of Hajoca Regal porcelain ware is heavy and strong and is coated with a thick glaze which is very smooth and hard and easy to keep clean.

Any number of Hajoca No. 612 urinals can be installed in a battery, altho not more than three should be connected to a single tank.

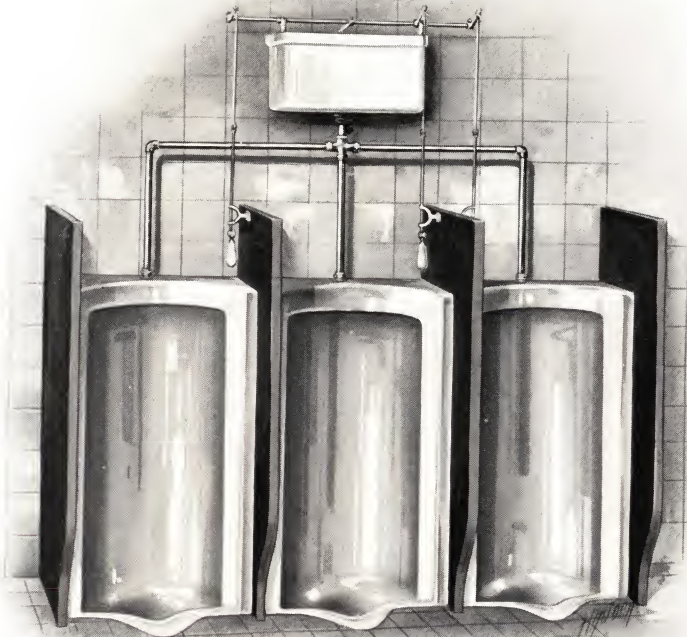


Plate W-1620

Hajoca No. 621 Regal porcelain stall urinals, each with integral drip receptor, nickel-plated brass inlet connection and spreader, waste connection with removable grate; and one Vitreo china tank with concealed wall hangers, nickel-plated link chain with guide and china pull and flush pipe (slate partitions not included).

Width along wall, each urinal. 18 inches 24 inches

From floor to top of urinal. 42 inches 42 inches

One urinal with No. 462 tank and single flush pipe. \$

Two urinals with No. 462 tank, two pulls and double flush pipe. \$

Three urinals with No. 466 tank, rocking bar, three pulls and triple flush pipe. \$

If with safety chain and oak pull in place of link chain with guide and china pull, deduct for each pull. \$

These urinals can also be equipped with an automatic tank or No. 84 treadle valve. For other methods of flushing these urinals, see preceding pages.

THE sides of each urinal are ground smooth and make a tight joint against the marble or slate partitions. The exposed surface of each stall is covered with a thick, smooth glaze, which is thoroly cleansed by a thin film of water from the inlet spreader every time the tank is flushed.



Plate W-1624

Hajoca ventilated slate urinals, with partitions, back, cap, grooved floor and gutter, brass stall clamps and bolts, galvanized strips for supporting back, waste connection with removable beehive grate, fan sprays with back inlet, one porcelain enameled inside automatic urinal tank with non-condensing exterior finish and nickel-plated short flush pipe to cap of stall (connections from end of flush pipe to inlet of sprays not included).

Dimensions—Height, 60 or 66 inches; centre to centre of partitions, 24 inches; depth of ends, 28 inches; depth of inside partitions, 18 inches; width of cap, 6 inches; floor slab, 1½ inches thick; partitions and back, 1 inch thick; gutter, 8 inches wide inside and 2 inches deep inside.

	60 inches high.	66 inches high.
Two stalls, with No. 262 tank, complete as described. . . .	\$	\$
Three stalls, with No. 266 tank, complete as described. . .	\$	\$
Four stalls, with No. 266 tank, complete as described. . .	\$	\$

(Prices are for ribbon slate and do not include vent pipe or setting up of slate.)

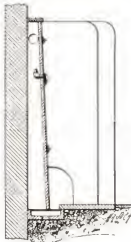


Plate W-1625
Sectional view of
Plate W-1624

PLATE W-1625 shows the method by which the urinal is ventilated. The vent flue should be connected to a suitable exhaust (compare page 207). The opening into the vent extends the full length of the urinal at the bottom, thus removing the odors from all parts.

The fan sprays cover the back slab with a thin film of water which thoroly cleanses it each time the tank flushes. If preferred the sprays can be connected direct to the pressure and controlled by a loose key stop, so that the flushing will be continuous. The stalls can also be equipped with a perforated washdown pipe as shown in plate W-1626, in place of sprays.

Prices for special equipment, for additional stalls, or for stalls of other sizes will be quoted on request; to avoid errors a sketch with measurements should always be submitted.



Plate W-1626

Hajoca washdown urinal stalls of Italian marble or slate, with partitions, back, grooved floor and gutter with nickel-plated waste connection with removable beehive strainer, brass angle clamps and bolts, perforated brass washdown pipe with loose key stop and straps.

Dimensions—Height, 60 or 66 inches; centre to centre of partitions, 24 inches; depth of ends, 22 inches; depth of inside partitions, 18 inches; floor slab, $1\frac{1}{2}$ inches thick; partitions and back, $\frac{3}{8}$ inch thick on marble stalls and 1 inch thick on slate stalls.

	Italian Marble.		Ribbon Slate.	
	60 inches high.	66 inches high.	60 inches high.	66 inches high.
Two stalls, complete as described	\$	\$	\$	\$
Three stalls, complete as described . . .	\$	\$	\$	\$
Four stalls, complete as described	\$	\$	\$	\$

(Prices do not include setting up).

Prices for additional stalls, or for stalls of any required dimensions will be furnished on request. To prevent errors a sketch with measurements should always be submitted.

THE floor of this stall is grooved to drain to the gutter. The washdown pipe is perforated with small holes from which the spray covers the entire surface of the back slab. By means of the loose key stop the water can be shut off entirely at night or at other times when the urinal is not in use. If preferred the washdown pipe can be fitted with a tee in the centre and connected to an automatic tank; price on application.



Plate W-1630

Hajoca No. 412 Vitreo china syphon jet urinal with top inlet and back outlet, brass outlet thimble, wall screws, nickel-plated Hajoca Royal urinal flush valve, side inlet, with $\frac{3}{4}$ -inch angle stop to wall, china push button, flush connection, coupling nut and flanges.

Each urinal as described (not including stall).....\$

When desired, china or metal handles or metal push buttons can be furnished in place of china push buttons.

The Hajoca Royal flush valve provides a most satisfactory method for flushing urinals. It is easy to operate, cannot be tampered with and always gives the same quantity of water at each flush. We recommend a separate stop on each fixture. This practice insures ready means to regulate the volume and permits shutting off the water from any individual fixture without interfering with the service to the other fixtures.

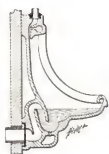


Plate W-1631
Section of Hajoca
No. 412 Syphon
jet urinal

Urinal stalls as shown, of marble or slate, including partitions, back, countersunk floor, nickel-plated brass stall clamps with bolts, partition legs, and waste connection with removable grate, are extra; prices on application. Usual dimensions: Height, 66 inches; centre to centre of partitions, 24 inches; depth of ends, 24 inches; depth of inside partitions, 20 inches; floor slab, $1\frac{1}{2}$ inches thick; partitions and back, if marble, $\frac{7}{8}$ inch thick; if slate, 1 inch thick.

Stalls of any desired size and similar to those shown above or on pages 237 to 239 will be furnished to order; prices on application. To prevent errors, a sketch with measurements should always be submitted.



Plate W-1632



Plate W-1634

Hajoca No. 412 Vitreo china syphon jet urinal with top inlet and back outlet, brass outlet thimble, wall screws, No. 462 Vitreo china automatic urinal tank with concealed wall hangers and nickel-plated flush pipe. As described, not including stall. .\$. Same, with No. 466 pull tank with link chain, guide and china pull in place of No. 462 automatic tank.\$

Hajoca No. 411 Vitreo china syphon jet urinal with top inlet and bottom outlet, wall screws, No. 266 porcelain enameled inside urinal tank with non-condensing exterior finish, nickel-plated link chain with guide and china pull, flush pipe and waste pipe to floor. As described, not including stall. .\$. If with safety chain and oak pull, in place of link chain with guide and china pull, deduct.\$

WHENEVER possible, Hajoca syphon jet urinals should be fitted with back outlet thru the wall. This arrangement conceals all the metal outlet connections, requires no opening thru the floor, and leaves the bottom part of the stall unobstructed. Where waste connections cannot be provided for behind the wall, however, the bottom outlet urinal with waste pipe to floor, as shown, Plate W-1634 can be furnished.



Plate W-1636

Hajoca No. 452 Vitreo china washout urinal with top inlet and back outlet with integral Vitreo china trap, brass outlet thimble with bolts, wall screws, No. 862 oak automatic urinal tank with 10-oz. copper lining, concealed hanger and nickel-plated flush pipe.

As described, not including stall. . . \$

Plate W-1637 (not illustrated). **Hajoca No. 453** Vitreo china washout urinal, back inlet with brass inlet connection, back outlet with integral Vitreo china trap and brass outlet thimble with bolts (no tank or flush pipe included). \$

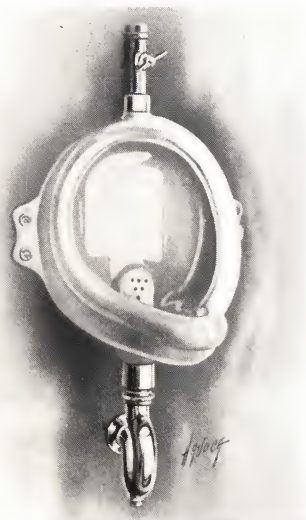


Plate W-1640

Hajoca No. 441 "Bedfordshire" Vitreo china flat back lipped urinal with wall screws, nickel-plated No. 33 urinal trap with outlet threaded for 1½-inch iron pipe and compression urinal faucet for ½-inch iron pipe.

As described. \$

Dimensions, urinal—Height, 15 inches; width, 13 inches.

Where desired the "Bedfordshire" urinal can be furnished also with automatic or pull tank with safety chain and oak pull. For various styles of tanks, see page 244.

Plate W-1642 (not illustrated). **Hajoca No. 241** porcelain enameled flat back lipped urinal on concealed wall hanger, with brass inlet and outlet couplings. \$

Dimensions—Height, 18½ inches; width, 13 inches.

Porcelain enameled in and out. . . \$

Porcelain enameled inside only. . . \$



Plate W-1644

Hajoca No. 441 "Bedfordshire" Vitreo china lipped urinals, each with wall screws, nickel-plated outlet connection and No. 33 urinal trap with outlet threaded for 1½-inch iron pipe; one gloss finish plain antique oak urinal tank with 10-oz. copper lining and concealed hanger, and nickel-plated flush pipe with inlets to urinal (slate or marble stalls not included).

Dimensions, urinal—Height, 15 inches; width, 13 inches.

	With automatic tank, as shown	With No. 866 pull tank with safety chain and oak pull
One urinal with No. 862 tank and single flush pipe.....	\$	\$
Two urinals with No. 862 tank and double flush pipe, as shown.....	\$	\$
Three urinals with No. 866 tank and triple flush pipe.....	\$	\$

Pull tanks for three urinals are fitted with rocking bar, as shown, plate W-1620. If pull tanks are fitted with link chain with guide and china pull, in place of safety chain and oak pull, add for each pull \$.

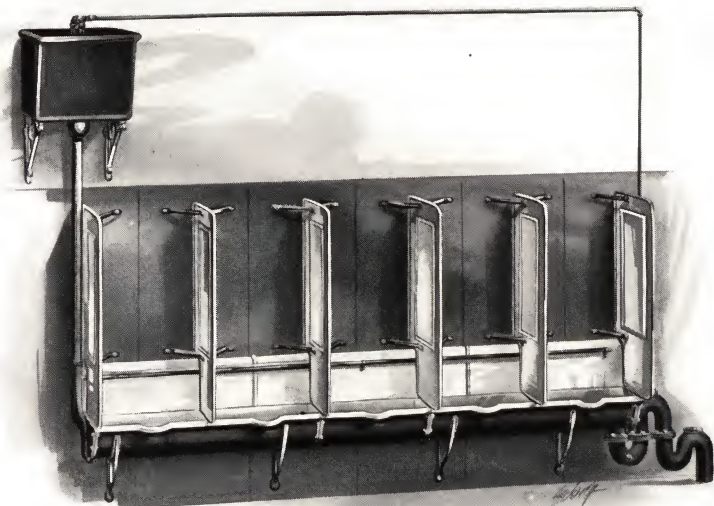


Plate W-1646

Hajoca automatic open syphon education lipped range urinal, with cast iron tank, galvanized iron flush and air pipes, pressed steel partitions 24 inches apart, and perforated washdown pipe fitted along back (brass on porcelain enameled and galvanized iron on painted urinals).

Furnished also without partitions; also with plain trough without lips.

Length, feet	With Lips				Without Lips			
	With partitions		No partitions		With partitions		No partitions	
	Painted	Porcelain enameled	Painted	Porcelain enameled	Painted	Porcelain enameled	Painted	Porcelain enameled
4	\$	\$	\$	\$	\$	\$	\$	\$
5	\$	\$	\$	\$	\$	\$	\$	\$
6	\$	\$	\$	\$	\$	\$	\$	\$
7	\$	\$	\$	\$	\$	\$	\$	\$
8	\$	\$	\$	\$	\$	\$	\$	\$
9	\$	\$	\$	\$	\$	\$	\$	\$
10	\$	\$	\$	\$	\$	\$	\$	\$
11	\$	\$	\$	\$	\$	\$	\$	\$
12	\$	\$	\$	\$	\$	\$	\$	\$
14	\$	\$	\$	\$	\$	\$	\$	\$
15	\$	\$	\$	\$	\$	\$	\$	\$
16	\$	\$	\$	\$	\$	\$	\$	\$

Longer urinals can be furnished if desired; also in double batteries, back to back; prices on application.

If with floor brackets instead of wall brackets shown, add \$ each.

Unless otherwise ordered, urinal with lips, porcelain enameled interior and outlet on right-hand end as shown, will be furnished.

THESE urinals operate on the same principle as our syphon range closets. The trough contains a good volume of water which is rapidly removed by the syphon education outlet when the tank starts to flush, leaving the contents of the tank to thoroly scour and cleanse the interior.

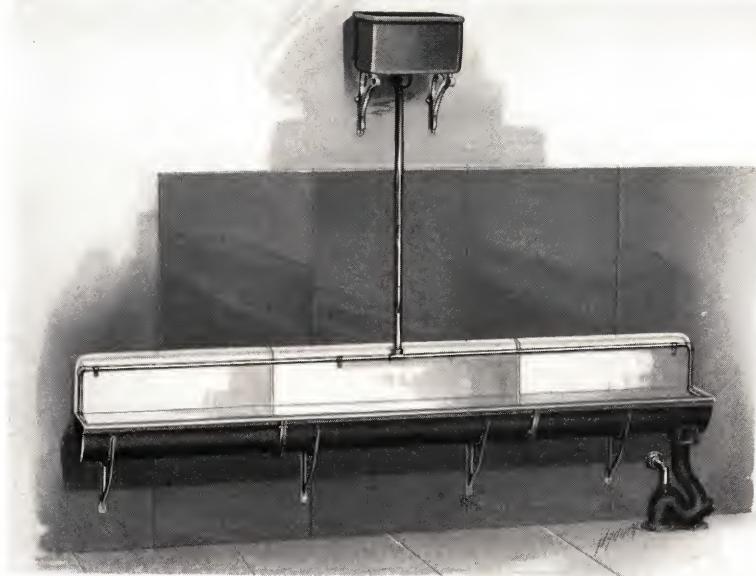


Plate W-1648

Hajoca automatic flushing rim range urinal with cast iron tank in center, galvanized flush pipe, perforated washdown pipes fitted along back, ends and front (brass on porcelain enameled, and galvanized iron on painted urinals) and with heavy brass capping along front.

Plate W-1648 can also be furnished with partitions similar to those shown, Plate W-1646.

Length, feet	With partitions		No partitions	
	Painted	Porcelain enameled	Painted	Porcelain enameled
4.....	\$	\$	\$	\$
5.....	\$	\$	\$	\$
6.....	\$	\$	\$	\$
7.....	\$	\$	\$	\$
8.....	\$	\$	\$	\$
10.....	\$	\$	\$	\$
12.....	\$	\$	\$	\$
14.....	\$	\$	\$	\$
16.....	\$	\$	\$	\$
18.....	\$	\$	\$	\$
20.....	\$	\$	\$	\$

Longer urinals can be furnished if desired; also with brass instead of galvanized iron flush pipe; prices on application.

If with floor brackets instead of wall brackets as shown, add \$ each.

Unless otherwise ordered, urinal with porcelain enameled interior and trap on right end as shown, will be furnished.

THE tanks furnished with these urinals flush automatically at regular intervals, the frequency of which can be controlled by a stop on the supply pipe. When installed in factories where they are used only in the day time, waste of water can be avoided by shutting off the supply at night.

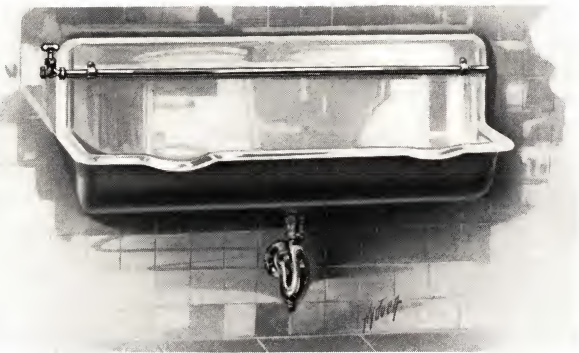


Plate W-1650

Hajoca roll rim lipped trough urinal with integral back, on concealed wall hanger, with brass beehive strainer, perforated washdown pipe (brass on porcelain enameled and galvanized iron on painted urinals) and loose key stop (trap not included).

Length, feet.....	2	3	4
As described, painted, not including washdown pipe and stop.....	\$	\$	\$
Same, porcelain enameled, not including washdown pipe and stop.....	\$	\$	\$

For washdown pipe and loose key stop, see Plate W-1669.
For 1½-inch Hajoca No. 33 trap as shown, add \$.



Plate W-1651

Hajoca roll rim trough urinal with integral back, on concealed wall hanger, with brass beehive strainer, perforated washdown pipe (brass on porcelain enameled and galvanized iron on painted urinals) and loose key stop (trap not included).

Length, feet.....	2	2½	3	3½	4	5	6
As described, painted, not including washdown pipe and stop.....	\$	\$	\$	\$	\$	\$	\$
Same, porcelain enameled, not including washdown pipe and stop.....	\$	\$	\$	\$	\$	\$	\$

For washdown pipe and loose key stop, see Plate W-1669.
For 1½-inch No. 33 trap as shown, add \$.

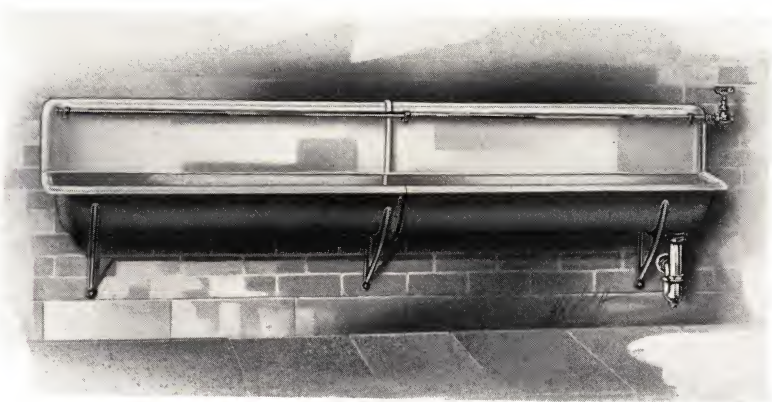


Plate W-1652

Hajoca roll rim sectional trough urinal with separate back, on painted brackets, with brass beehive strainer, (perforated washdown pipe, brass on porcelain enameled and galvanized iron on painted urinals, and loose key stop and trap not included).

Length, feet.....	7	8	9	10	12	14	15
As described, painted.....	\$	\$	\$	\$	\$	\$	\$
Same, porcelain enameled	\$	\$	\$	\$	\$	\$	\$

For washdown pipe and loose key stop, see Plate W-1669.

For 1½-inch No. 22 trap to wall, add \$.



Plate W-1656

Hajoca No. 31 automatic tank valve, for tanks of six gallons capacity...\$



Plate W-1658

Hajoca No. 905 galvanized goose-neck syphon flush valve, for pull tank...\$

For thimble and locknut, add \$.

Plate W-1657 (not illustrated; compare Plate W-1656). Hajoca No. 32 automatic tank valve, for tanks of two gallons capacity.....\$

OUR No. 31 and No. 32 automatic tank valves have no moving parts and operate only in conjunction with our No. 45 ball cock. The frequency of flush depends upon the rapidity with which the tank fills, and can be regulated by adjusting the regulating screw on the ball cock.

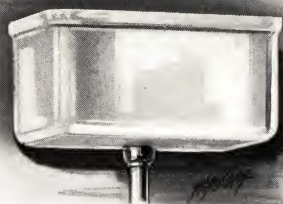


Plate W-1660

Hajoca Vitreo china automatic urinal tank, with concealed hangers. For sizes, etc., see below.

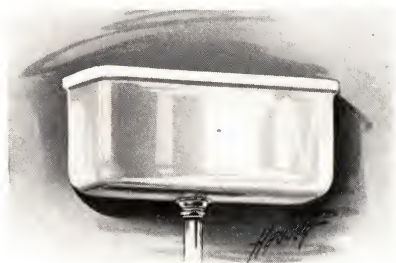


Plate W-1662

Hajoca automatic urinal tank, porcelain enameled inside, painted white outside. For sizes, etc., see below.

Plate W-1664 (not illustrated). Hajoca oak automatic urinal tank with 10-ounce copper lining and concealed hanger. For sizes, etc., see below.

Nominal capacity	2 gallons	6 gallons
Approximate inside dimensions (length, width and depth).....	12 x 6 x 9 inches	16x8x11½ inches
Style of automatic valve.....	No. 32	No. 31
Style of ball cock.....	No. 45 with stop	No. 45 with stop
No. of urinals which tank will flush.....		
Regal porcelain stall urinals.....	1 or 2	3
Syphon jet.....	1	2 or 3
Washout.....	1 or 2	3
Fan sprays.....	1 or 2	3 or 4
Perforated pipe.....	6 feet	12 feet
Plate W-1660 as described.....	No. 462 \$	No. 466 \$
Plate W-1662 as described.....	No. 262 \$	No. 266 \$
Plate W-1664 as described.....	No. 862 \$	No. 866 \$

For pull valve, No. 43 ball cock, nickel-plated chain and oak pull on any of the above 6 gallon tanks, add.....\$

For non-condensing exterior finish on Plate W-1662, add.....\$

Not more than 3 urinals should be flushed from any one tank on account of the difficulty of securing distribution of water thru flush pipes having more than three branches.



Plate W-1667

Plate W-1667. Hajoca No. 71 self-closing urinal faucet with Easy-grip handle, for 1/2-inch iron pipe.

Polished, each.....\$

Nickel plated, each.....\$

Plate W-1668. Hajoca compression urinal faucet, for 1/2-inch iron pipe.

Polished, each.....\$

Nickel plated, each.....\$



Plate W-1668

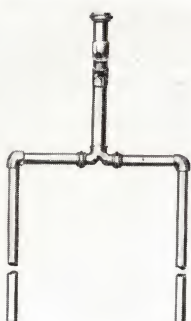
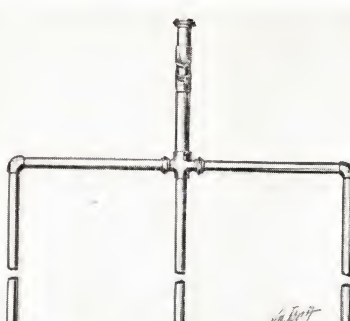


Plate W-1659

Hajoca perforated washdown pipe for urinals.

	Galvanized	Polished Brass	Nickel Plated
Price, per foot.....	\$	\$	\$
For loose key stop, add.....		\$	\$

Made also in 1/2-inch or 3/4-inch iron pipe weight brass pipe to order, polished or nickel plated; price on application.


Plate W-1670
Single

Plate W-1671
Double

Plate W-1672
Triple

Hajoca nickel-plated brass urinal flush pipes.

	Single Plate W-1670	Double Plate W-1671	Triple Plate W-1672
For syphon jet and washout urinals...	\$	\$	\$
For Regal porcelain urinal stalls.....	\$	\$	\$
Pipe to cap of stall only, 2 feet long...	\$		

Double and triple pipes have slip joints for adjusting the width.

Urinal flush pipes are furnished not over 4 feet long over all, and not over 28 inches center to center.



Plate W-1680

Hajoca door pull, nickel plated, with screws, each.....\$



Plate W-1682

Hajoca stall bolt, with two nickel-plated loose heads, each.....\$

Same, with one nickel-plated and one rough loose head.....\$

When ordering state thickness of partition.

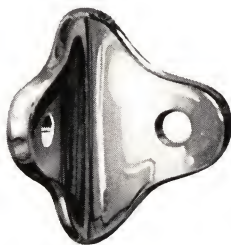


Plate W-1684

Hajoca stall clamp, nickel-plated cast brass, each.....\$

Bolts extra, see Plate W-1682.



Plate W-1686

Hajoca angle stall clamp, nickel-plated cast brass.

3-inch arms, 4 holes, each.....\$

Bolts extra, see Plate W-1682.

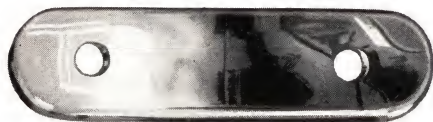


Plate W-1688

Hajoca flat partition clamp, nickel-plated cast brass, $3\frac{1}{4} \times \frac{7}{8}$ inches, each.....\$

Bolts extra, see Plate W-1682.

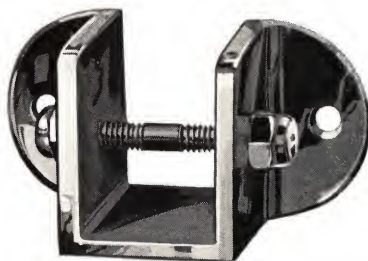


Plate W-1690

Hajoca pocket stall clamp, nickel-plated cast brass, including one bolt; for partitions $\frac{7}{8}$ inch to $1\frac{1}{2}$ inch thick, each.....\$

When ordering give thickness of partition.

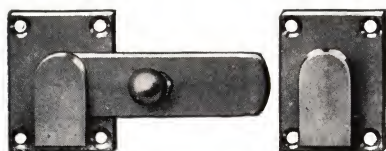


Plate W-1691

Hajoca nickel-plated throw door latch with keeper and screws, per set. . . . \$



Plate W-1692

Hajoca nickel-plated door strike, with rubber bumper for face of door, with screws, each. \$

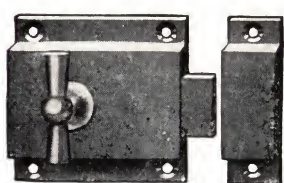


Plate W-1693

Hajoca nickel-plated brass rim bolt, with keeper and indicator.

Bolt, with keeper and screws, each. \$

Indicator, with screws, each. . . . \$



Plate W-1694

Hajoca nickel-plated brass door strike, plain, with rubber bumper, adjustable box clamp and bolts, each. \$

When ordering state thickness of partition and of door. Box clamp has an adjustment of $\frac{1}{8}$ inch in thickness.



Plate W-1695

Hajoca nickel-plated brass heavy spring surface hinge, with bolts and screws, per pair. \$

When wanted for marble or slate partitions state thickness of marble, so that bolts of proper length can be furnished.



Plate W-1696

Hajoca nickel-plated brass spring hinge, with adjustable box clamp, bolts and screws, per pair. \$

When ordering state thickness of partition and of door. The box clamp has an adjustment of $\frac{1}{8}$ inch in thickness.



Plate W-1700

Hajoca nickel-plated straight urinal outlet for No. 441 urinal, each . . . \$

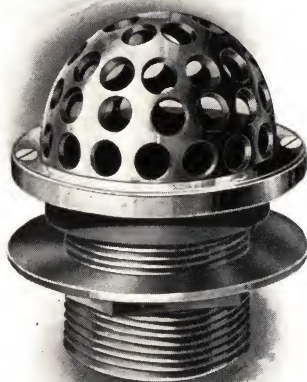


Plate W-1702

Hajoca nickel-plated brass waste connection, with removable beehive strainer, for 2-inch lead pipe, with 4½-inch flange, each . . . \$

THE shape of the beehive strainer is such that it cannot readily become clogged with cigar stumps, match sticks, etc. For method of connecting lead pipe, see Plate W-1706.

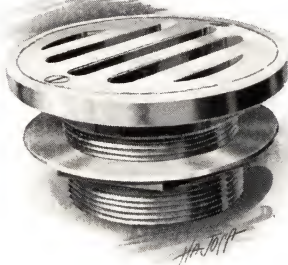


Plate W-1704

Hajoca nickel-plated brass waste connection, with removable grate, for 2-inch lead pipe, with 4½-inch flange, each . . . \$

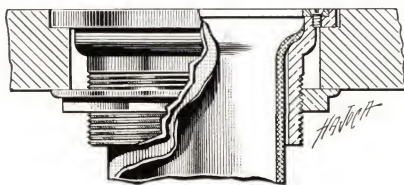


Plate W-1706

Sectional view of Plates W-1702 and W-1704

THE Hajoca waste connections satisfactorily solve the otherwise difficult problem of making a tight and permanent connection from the stall waste or gutter to the drain pipe. The connection is first locked to the floor slab; then the grate is removed and the lead pipe brought up thru the center (see sectional view) and flanged over and soldered to the recess inside of connection near top.



Plate W-1708

Plate W-1708. Hajoca "Josam" double drainage waste connection, iron body with nickel-plated brass strainer and collar.

No. 300, 2-inch I. P. outlet, 4-inch strainer, each.....\$

No. 301, 3-inch I. P. outlet, 5-inch strainer, each.....\$

THE Hajoca "Josam" double drainage drain outlet without trap is specially suited for floors constructed of marble, tile, cement or any composition where construction will not permit or where it is not possible to place the trap in same. The collar screwing into the iron body is adjustable to suit different floor thicknesses. The extended flange catches any seepage between the outside of the collar and floor construction draining it into the outlet thru the drainage holes, thus preventing leaks to the ceiling below.

Plate W-1709. Hajoca "Josam" double drainage combined floor drain and trap, iron body with nickel-plated brass strainer and collar.

No. 200-A, 1½-inch I. P. outlet, 4-inch strainer, each.....\$

No. 203-A, 2-inch I. P. outlet, 5-inch strainer, each.....\$

No. 207-A, 3-inch I. P. outlet, 6-inch strainer, each.....\$

No. 2003-A, 2-inch hub outlet, 6-inch strainer, each.....\$



Plate W-1709



Plate W-1710
Partition, open



Plate W-1712
Partition, closed end



Plate W-1714
Partition and stile



Plate W-1716
Corner

Hajoca nickel-plated brass stall legs with bolts.

	Plate W-1710	Plate W-1712	Plate W-1714	Plate W-1716
12 inches high, each...	\$	\$	\$	\$

When ordering, always specify the thickness of partitions or stiles.

HAJOCA LAUNDRY TRAYS AND KITCHEN SINKS

THE rooms for the preparation and serving of foods and for the laundering of linens, etc., should be equipped with the most improved appliances and plumbing fixtures; for upon the selection of the right plumbing for the kitchen, pantry and laundry depend in a large measure household sanitation, efficiency and short cuts in domestic work.

Hajoca Regal porcelain is a beautiful white sanitary ware, and with many architects and consumers it holds first rank for laundry and kitchenware. Fixtures made of this material are massive, strong and handsome and are chosen for their characteristic sanitary features. Their surfaces are free of joints and crevices; the material is impervious to moisture, grease, etc., and can be easily kept clean and spotless. A number of choice designs are illustrated on the following pages.

The elimination of joints in kitchen and laundry equipment is always highly desirable. Special attention is directed to the complete line of porcelain enameled kitchen sinks, shown herein, with backs and drain-boards made in one integral whole without joints or seams; such designs will relieve the mind of all thoughts of stray dirt finding lodgment in unseen or out of the way crevices.

With so many satisfactory designs for selection, the modernizing of kitchens and laundries even in structures built years ago becomes a comparatively easy matter. Such residences offer promising opportunity to the trade and a careful study of the following pages and the energetic application of modern sales methods should effect far greater sales of sanitary kitchen plumbing than have heretofore been realized.

Special attention is directed to the excellent line of Hajoca sheet metal pantry sinks shown herein and to our facilities for making such fixtures specially to order.

In planning modern structures architects are giving more and more consideration to the usefulness of slop sinks as an aid in household economy. Such fixtures will be found a great convenience as they provide a suitable receptacle for filling and emptying buckets thus avoiding injury to other fixtures which would be used for this purpose. For public buildings they are regarded as an indispensable part of the equipment of toilet and janitors' rooms. A complete line of Hajoca slop sinks is shown in this catalog.

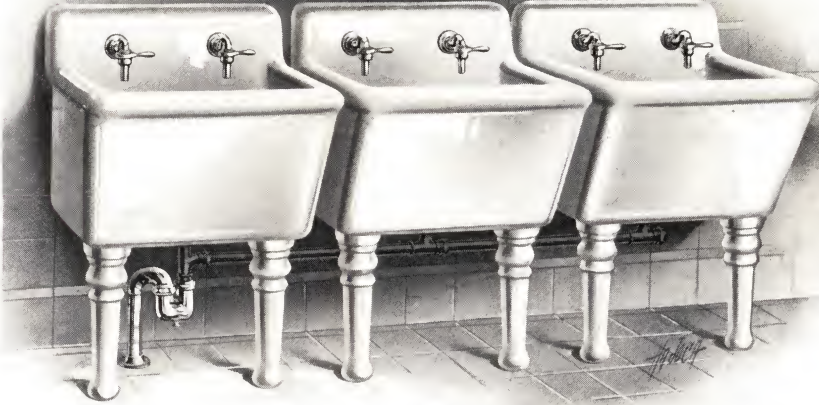


Plate W-1802

Hajoca No. 652 Regal porcelain roll rim laundry trays, with integral backs, Regal porcelain legs with adjustable wall supports, nickel-plated flanged Quick faucets for $\frac{1}{2}$ -inch iron pipe inside thread and $\frac{1}{2}$ -inch waste plugs with couplings and chains (continuous waste and trap extra).

Dimensions, inches.....	26 x 26	30 x 26	36 x 26
Set of two trays, as described.....	\$	\$	\$
Set of three trays, as described.....	\$	\$	\$

For $1\frac{1}{2}$ -inch nickel-plated continuous waste and No. 22 trap as shown, see Plates W-2500 and W-2602.

Hajoca Regal porcelain trays present a handsome appearance, and the smooth glazed surface is easily kept clean. Every tray is made in a single piece and there are no joints to leak and no seam between tray and back to collect grease and dirt. The backs are made with a recess into which all supply pipes and fittings can be placed. This eliminates the necessity of cutting into the wall for such piping. The backs are ground flat permitting a tight joint between the trays and the wall.

Plate W-1803. Hajoca ash wringer holder with galvanized tie rod and clamp, each.....\$

When ordering specify size and style of trays with which holder is to be used.

THESE wringer holders are made of heavy well-seasoned ash and can be used with any of our Regal porcelain roll rim trays. Most standard styles of wringers can be easily attached to the holder, thus avoiding the inconvenience and additional expense of a special wringer.



Plate W-1803

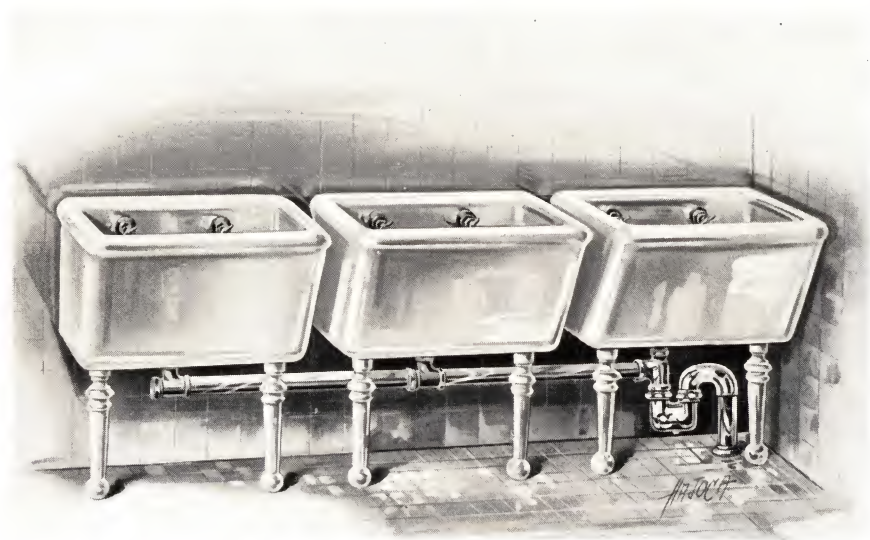


Plate W-1804

Hajoca No. 651 Regal porcelain all roll rim laundry trays with painted iron legs with adjustable wall supports, nickel-plated $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe inside thread and $1\frac{1}{2}$ -inch waste plugs with couplings and chains (continuous waste and trap extra).

Dimensions, inches.....	24 x 24	26 x 24	30 x 24	36 x 24
Set of two trays, as described.....	\$	\$	\$	\$
Set of three trays, as described.....	\$	\$	\$	\$
If with Regal porcelain legs, (see Plate W-1802), in place of iron legs, add per tray.....	\$	\$	\$	\$
For $1\frac{1}{2}$ -inch nickel-plated continuous waste and No. 22 trap as shown, see Plates W-2500 and W-2602.				

Hajoca laundry trays having roll rim all around are intended for installation where the walls are of tile, marble or slate. They should be placed 2 inches or more from the wall with not less than 1 inch space between trays, so that all parts can be readily cleaned.

Plate W-1805. Hajoca soap holder white Vitreo china to recess into tile wall, 6 x 6-inch flange.....\$

Plate W-1806 (not illustrated; compare Plate W-912). Hajoca soap holder white Vitreo china to recess into tile wall, 6 x 3-inch flange..\$

THESE soap holders to recess into tiled walls have become popular for use over laundry trays in tiled laundries. The gloss surface harmonizes with the tile and can be kept sweet and clean by wiping now and then with a damp cloth. These holders are out of the way and do not encroach on laundry room space.

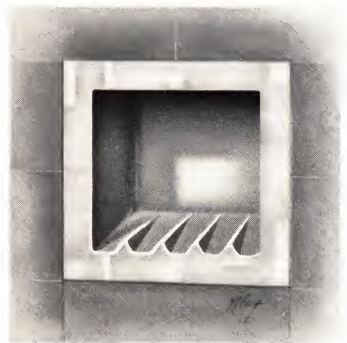


Plate W-1805

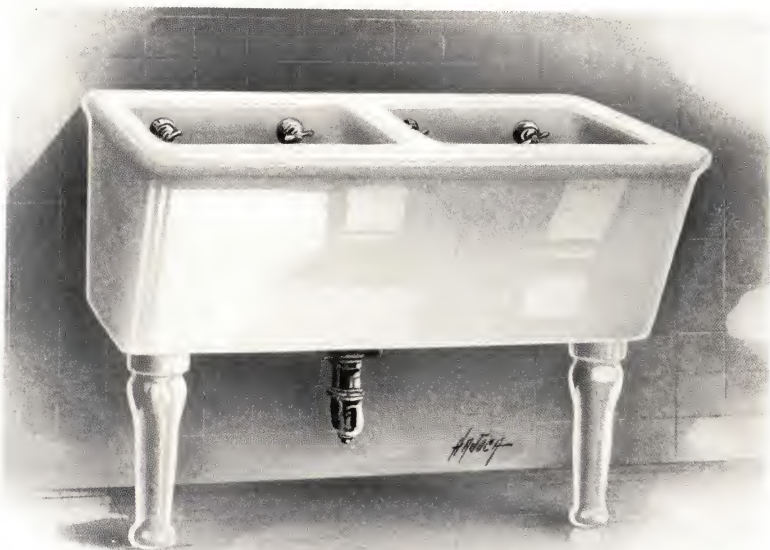


Plate W-1808

Hajoca No. 629 Regal porcelain two-part roll rim laundry tray in one piece with twin waste connection and stoppers, Regal porcelain legs and adjustable wall supports, and nickel-plated $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe inside thread (trap extra).

Dimensions, inches.....	46 x 26
As described.....	\$
For $1\frac{1}{2}$ -inch nickel-plated No. 22 trap as shown, with connection to twin waste, add.....	\$

Plate W-1810 (not illustrated). **Hajoca No. 631** Regal porcelain two-part flat rim laundry tray in one piece with twin waste connection and stoppers, Regal porcelain legs and adjustable wall supports, nickel-plated $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe inside thread (trap extra).

Dimensions, inches.....	40 x 24	45 x 24
As described.....	\$	\$
For $1\frac{1}{2}$ -inch nickel-plated No. 22 trap with connection to twin waste, add.....	\$	\$

THESE trays are made in one integral piece without joints or seams and can be installed in limited spaces. The twin waste makes only one waste connection necessary.

Special attention is directed to the appropriate design of the No. 20 Shorto tray faucet. It is short and fits so snugly against the tray as to prevent striking the knuckles or tearing the linen. The nozzle is close to the back wall of the tray.

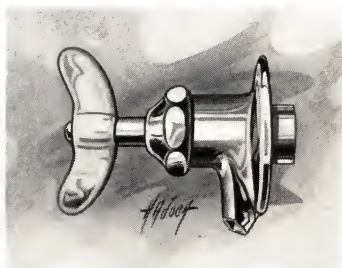


Plate W-1811

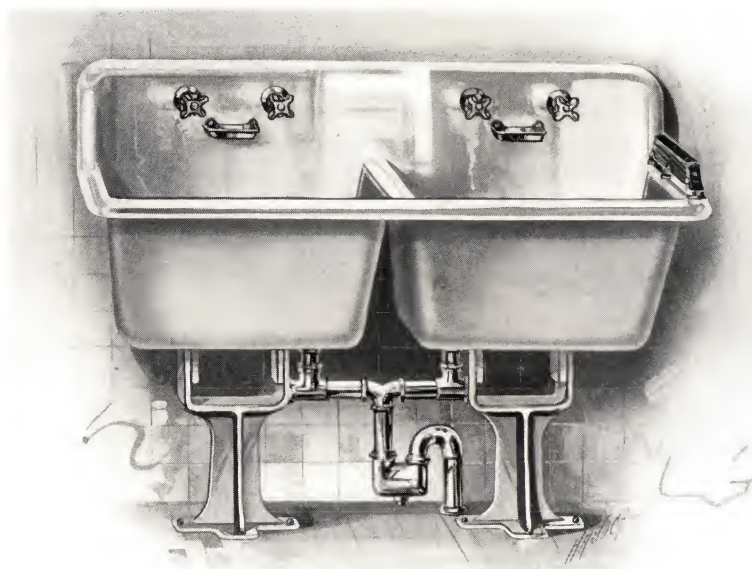


Plate W-1812

Hajoca No. 330 porcelain enameled inside two-part roll rim laundry trays with 8-inch back all in one piece, painted iron adjustable standards, one hardwood wringer holder, nickel-plated soap cups, waste plugs and couplings with rubber stoppers and chains, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread with No. 3-C china index handles (2-part continuous waste and trap extra).

Dimensions, inches..... 53 x 26

As described..... \$

For $1\frac{1}{2}$ -inch nickel-plated 2-part continuous waste and No. 22 trap as shown, see Plates W-768 and W-2602.

The exterior of these trays is painted one coat.

THE two trays with their rolled rim and back are all made in one single piece, without any joint between the compartments or between the trays and back. They have a double centre partition instead of one solid partition which overcomes the effects of expansion and contraction should one part contain hot and the other cold water.

The adjustable iron standards permit the top of the rim of the trays to be set from 31 to 34 inches from the floor. Experiments have proved that laundry work can be most efficiently done and with less muscle fatigue when the rim of the tray is about 34 inches from the floor.

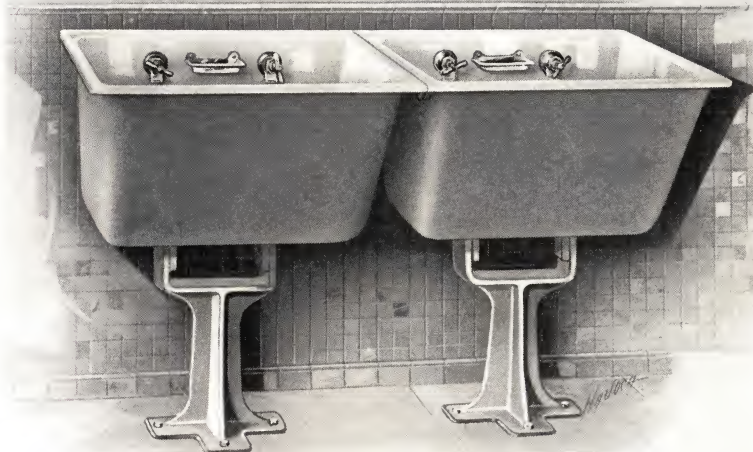


Plate W-1814

Hajoca No. 371 porcelain enameled inside flat rim laundry trays with painted iron adjustable standards, nickel-plated soap cups, waste plugs and couplings with rubber stoppers and chains, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread.

Dimensions—Length of each tray, $25\frac{1}{2}$ inches; width, $25\frac{1}{2}$ inches.

	One-part	Two-part	Three-part
As described.....	\$	\$	\$
For hardwood wringer holder, add.....			\$
Any number of these trays can be set up side by side.			



Plate W-1816

Plate W-1816. Hajoca No. 373 porcelain enameled inside flat rim laundry tray with painted iron adjustable standard, hardwood wringer holder, nickel-plated waste plug and coupling with rubber stopper and chain and $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread.

Dimensions—Length, 24 inches; width, $22\frac{3}{4}$ inches.

As described.....\$

THE adjustable iron standards permit the tops of rims of these trays to be set from 31 to 34 inches from the floor.

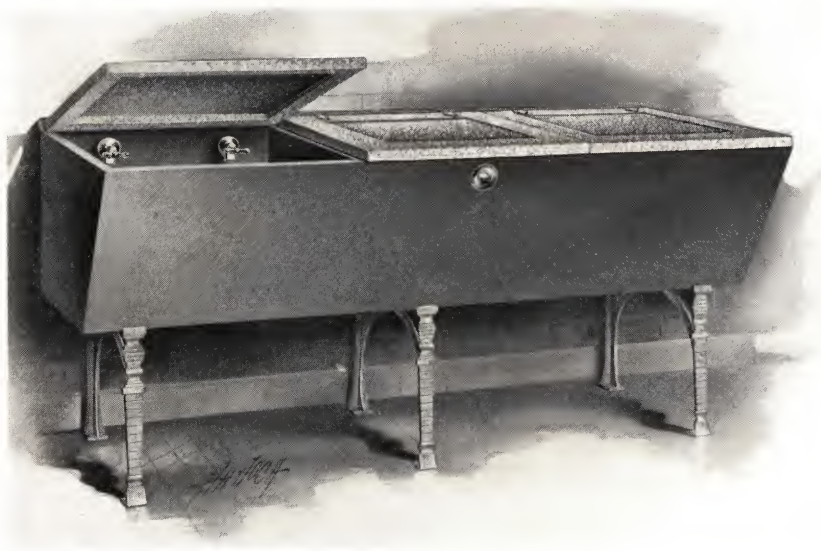


Plate W-1818

Hajocastone three-part laundry trays with $1\frac{1}{4}$ -inch polished waste plugs with couplings and chains, galvanized iron tray legs, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch galvanized tray fittings and galvanized iron laundry tray covers.

Dimensions—Length, 72 inches; width, 24 inches; height to top of rim, 32 inches.

As described.....\$

Hajocastone laundry trays are made of a high quality of natural stone which is exceedingly close-grained, strong and tough and is perfectly sanitary and non-absorbent. It is not affected by acids, oils, or any combination of alkalies. All joints are tongued and grooved and accurately fitted and held together with bolts.

Plate W-1819. Hajoca brass wringer shield for Hajocastone laundry trays. Each....\$



Plate W-1819

THIS shield is attached by bolts to the center or end partitions of the tray and prevents the clamps or set screws of the wringer from damaging the stone.

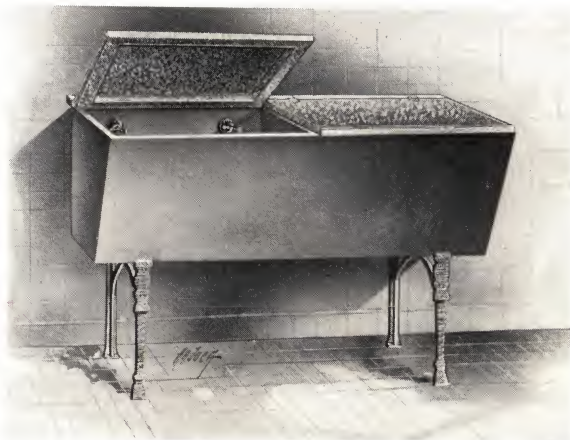


Plate W-1820

Hajocastone two-part laundry trays with twin waste connection and chains, galvanized iron tray legs, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch galvanized iron tray fittings and galvanized iron laundry tray covers.

Dimensions—Length, 48 inches; width, 24 inches; height to top of rim, 32 inches.
As described.....\$



Plate W-1822

Hajoca concrete laundry trays with metal rim, twin waste connection and chains, galvanized iron tray legs, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch galvanized tray fittings and galvanized laundry tray covers.

Dimensions—Length, two-part, 48 inches; three-part, 72 inches; width, 24 inches; height to top of rim, 32 inches.

	Two-part	Three-part
As described.....	\$	\$

The three-part trays have one waste plug in addition to twin waste connection.

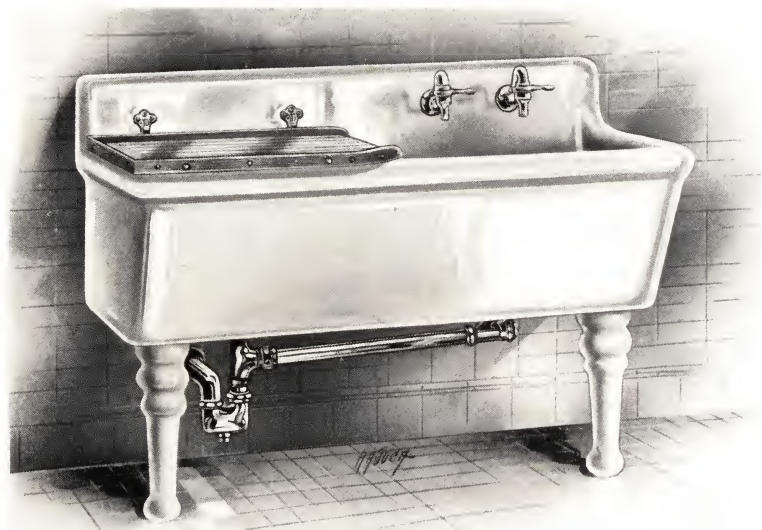


Plate W-1830

Hajoca No. 634 Regal porcelain combination roll rim kitchen sink and laundry tray with 6-inch integral back, Regal porcelain legs with adjustable wall supports, nickel-plated $1\frac{1}{2}$ -inch waste plug with coupling and chain, $1\frac{1}{2}$ -inch waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe inside thread, high nozzle Quick faucets flanged for $\frac{1}{2}$ -inch iron pipe inside thread, $1\frac{1}{2}$ -inch two-part continuous waste with long connection to sink outlet and $1\frac{1}{2}$ -inch No. 22 trap to wall, combination grooved ash drain board and cover with raised edges, bolts, hinges and catch.

Dimensions—Length, 50 inches; width, 24 inches; inside measurements of sink, 21 x 17 inches; inside measurements of tray, 22 x 17 inches.

As described.....\$

The above outfit can be furnished with laundry tray on left-hand side as shown, or on right-hand side. When ordering specify which is wanted.

THE special advantage of this fixture is the combined sink and laundry tray with the absence of joints in the back and between sink and tray. The entire fixture is made of a single piece of Regal porcelain ware, covered inside and out with a thick smooth glaze which presents a very handsome appearance and is easily cleaned. Furthermore the compactness of the fixture commends it specially for apartment houses, flats or small kitchens, where every square foot of floor space must be used to the best advantage.

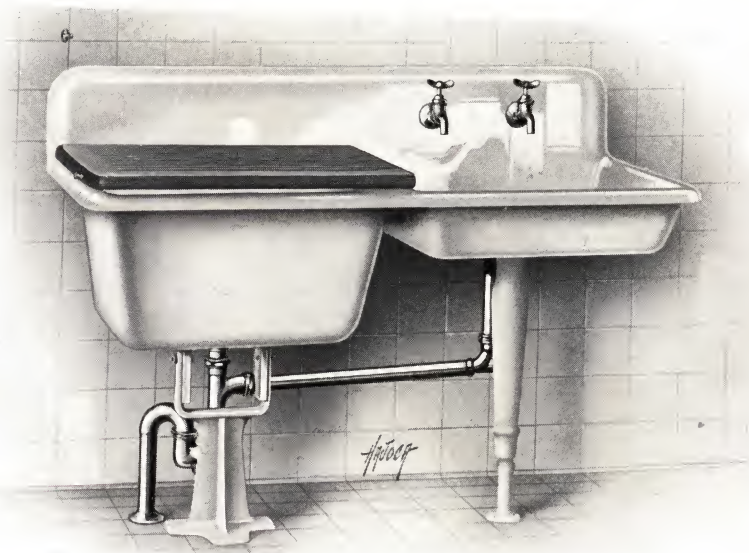


Plate W-1834

Hajoca No. 334 porcelain enameled inside roll rim laundry tray and kitchen sink combination with 8-inch integral back, concealed wall hangers and painted iron adjustable standard and leg, nickel-plated waste strainer and coupling, waste plug with rubber stopper and soap cup for tray, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch No. 20 flanged compression sink faucets for iron pipe outside thread, $1\frac{1}{2}$ -inch two-part continuous waste with long connection to sink outlet and $1\frac{1}{2}$ -inch No. 22 trap to floor, grooved ash combination drainboard and cover with nickel-plated hinges and catch.

Dimensions—Length, 50 inches; width, $23\frac{1}{2}$ inches; inside measurements of sink, $21\frac{3}{4} \times 19\frac{1}{4}$ inches; inside measurements of tray, $21\frac{3}{4} \times 19\frac{1}{4}$ inches.

As described.....\$

This combination can be furnished with laundry tray on left-hand side as shown, or on right-hand side. When ordering, specify which is wanted.

THE above fixture is a space saver and is a most popular laundry tray and kitchen sink combination for apartments, flats and small residences. The fixture is in one integral whole without joints or seams to harbor stray dirt; when the laundry tray is not in use the cover serves the purpose of a drainboard for the sink.

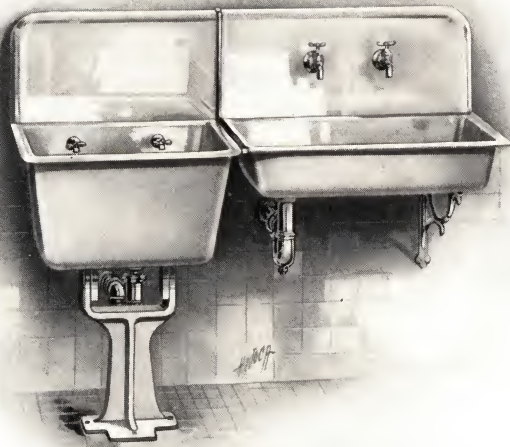


Plate W-1836

Hajoca No. 344 porcelain enameled inside flat rim laundry tray and kitchen sink combination with 12-inch separate backs, painted iron adjustable standard and bracket, nickel-plated union strip, waste strainer and coupling, waste plug and coupling with rubber stopper and chain, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch No. 20 flanged compression sink faucets for iron pipe outside thread and two $1\frac{1}{4}$ -inch No. 22 traps to wall.

- One tray 24 x 22 inches, with sink 24 x 20 inches, as described\$
 Same with 30 x 20 inch sink.....\$
 Same with 36 x 20 inch sink.....\$

When ordering state if sink is wanted on right or left side of tray.

Plate W-1839. Hajoca No. 373 porcelain enameled inside flat rim laundry tray with painted iron adjustable standard and nickel-plated waste plug and coupling, in combination with No. 352 porcelain enameled inside roll rim kitchen sink with 12-inch integral back, concealed wall hanger and nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 Shorto flanged compression tray faucets for iron pipe outside thread, $\frac{1}{2}$ -inch No. 20 flanged compression sink faucet for iron pipe outside thread, two $1\frac{1}{4}$ -inch No. 44 traps to wall and combination drain board and cover.

- One tray 24 x $22\frac{3}{4}$ inches, with sink
 24 x 20 inches, as described . . . \$
 Same with 30 x 20 inch sink . . . \$

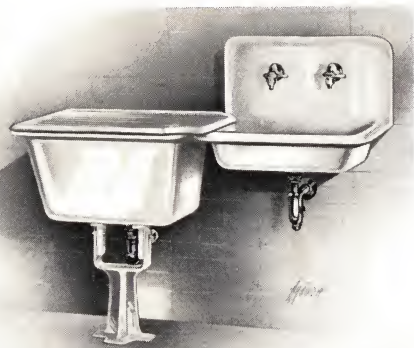


Plate W-1839

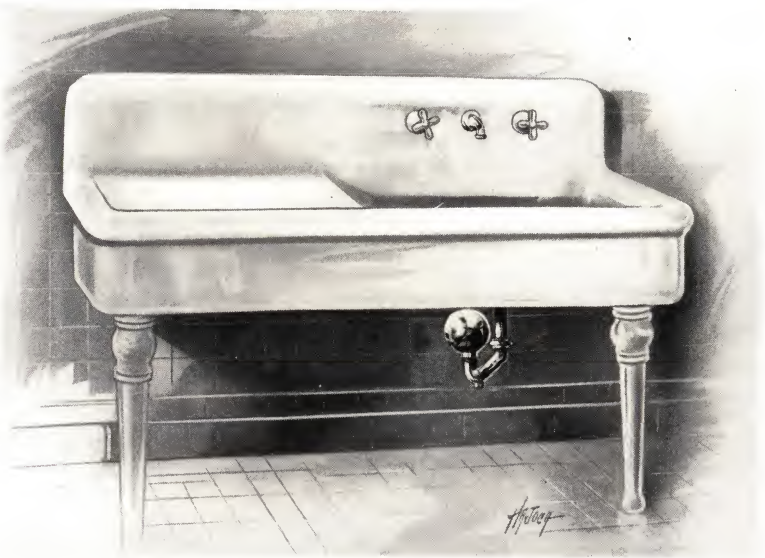


Plate W-1840

Hajoca No. 614 Regal porcelain roll rim kitchen sink with integral back and left-hand integral drain board, Regal porcelain legs with adjustable wall supports, 1½-inch nickel-plated waste strainer and coupling, No. 24 compression combination faucet with No. 12-C all china index handles and china base flanges and 1½-inch No. 10 trap to wall.

Dimensions—Length, 62 inches; width, 26 inches.

As described\$

For No. 210 porcelain enameled inside grease trap as shown Plate W-3012, with connection to sink and wall instead of No. 10 trap, add.....\$

WHERE there is unusual amounts of greasy water to be disposed of and the use of the kitchen sink is continuous, as in hotels, institutions, hospitals, etc., the Hajoca No. 210 and No. 211 grease traps are recommended for installation as the means to prevent choking of waste pipes with grease.

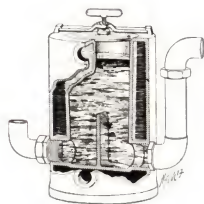


Plate W-1841
Showing interior construction
of Hajoca No. 210 and
No. 211 Grease Traps

These grease traps are constructed with a chilling chamber or jacket (see Plate W-1841 for sectional illustration) which surrounds the body of the trap, but is entirely separated from it by a solid partition. The main water-supply to the sink or range boiler is conducted thru this chilling chamber so that whenever water is drawn at the sink a fresh supply of cold water enters the jacket. The waste water in the inner part of the trap is thus constantly cooled, congealing the grease, which floats to the top, where the cleanout plate permits its removal as frequently as is necessary; while the waste water, which has discharged its grease, escapes from near the bottom of the trap into the drain. The inner partition in the trap also assists in the separation of the grease.

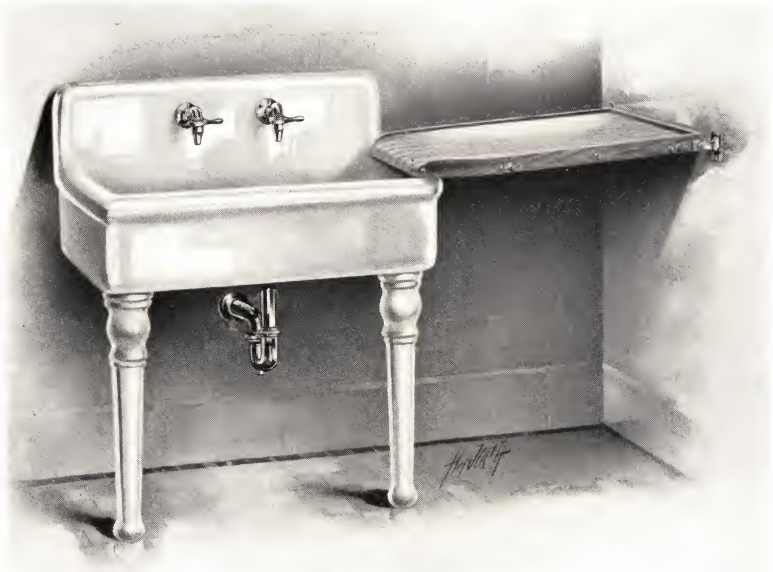


Plate W-1842

Hajoca No. 652 Regal porcelain roll rim kitchen sink with integral back, Regal porcelain legs with adjustable wall supports, 1½-inch nickel-plated waste strainer and coupling, flanged Quick faucets for ½-inch iron pipe inside thread, 1½-inch No. 22 trap to wall and 30-inch grooved ash right-hand drain board with raised edges, bolts, hinges for end wall and wall catch.

Sizes, inches.....	24 x 22	27 x 26	30 x 22	30 x 26	36 x 26	42 x 26
As described.....	\$	\$	\$	\$	\$	\$

Drain boards can be furnished right or left-hand as required.
If drain board is furnished with nickel-plated telescopic leg and hinges for back wall instead of with hinges for end wall, add.....\$
If without any drain board, deduct.....\$

For Hajoca No. 24 compression combination faucet with No. 12-C all china index handles and china base flanges (as shown Plate W-1840) add.....\$

Plate W-1844 (not illustrated). Hajoca No. 662 extra deep Regal porcelain roll rim kitchen sink with 6-inch integral back, Regal porcelain legs with adjustable wall supports, 1½-inch nickel-plated waste strainer and coupling, flanged Quick faucets for ½-inch iron pipe inside thread and 1½-inch No. 22 trap to wall.

Dimensions—Length, 37 inches; width, 26 inches.
As described.....\$
THE Hajoca No. 662 extra deep sink has an inside depth of 10 inches.



Plate W-1847

Hajoca No. 651 Regal porcelain all roll rim kitchen sink with Regal porcelain legs and adjustable wall supports, nickel-plated No. 11 double compression faucet with No. 3-C china index handles and $\frac{3}{4}$ -inch iron pipe weight supply pipes to wall with union connections and air chambers, $1\frac{1}{2}$ -inch waste strainer and coupling, $1\frac{1}{2}$ -inch No. 22 trap to wall, one 30-inch grooved ash left-hand drain board with raised edges, bolts, hinges for back wall, telescopic leg and wall catch and one 30-inch grooved ash right-hand drain board with raised edges, bolts, hinges for end wall and wall catch.

Sizes, inches.....	24 x 17	30 x 20	36 x 23	42 x 24	48 x 24
As described.....	\$	\$	\$	\$	\$

If with iron legs painted to match sink in place of Regal porcelain legs, deduct . \$

If without drain boards, deduct.....\$

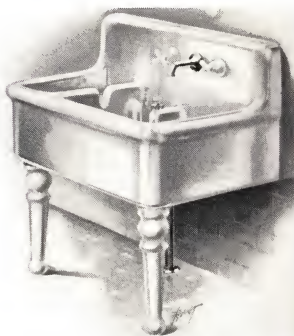


Plate W-1850

Plate W-1850. Hajoca No. 646 Regal porcelain roll rim vegetable sink with integral back, drain shelf, and slotted waste enclosure, Regal porcelain legs with adjustable wall supports, No. 24 compression combination faucet with No. 12-C all china index handles and china base flanges, No. 30 waste with stand pipe and china knob handle and $1\frac{1}{2}$ -inch No. 22 trap to floor.

Size, inches.....	36 x 24
As described.....	\$

Plate W-1851 (not illustrated). Hajoca No. 648 Regal porcelain roll rim vegetable sink as above, except without drain shelf.

Sizes, inches.....	30 x 22	36 x 24
As described.....	\$	\$

WITH these sinks, vegetables may be washed more satisfactorily and with much less inconvenience than in ordinary sinks. These fixtures are specially suited for the modern residential kitchen, as well as for hospitals, institutions, etc.

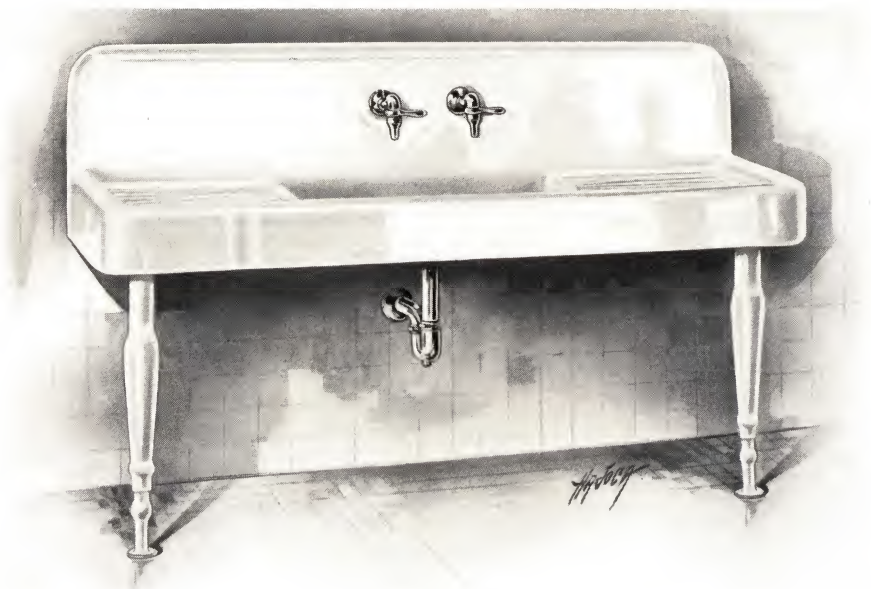


Plate W-1860

Hajoca No. 210 porcelain enameled roll rim kitchen sink with 12-inch integral back, apron and right and left-hand integral drain boards, concealed wall hangers and porcelain enameled adjustable legs, nickel-plated waste strainer and coupling, Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flanges and $1\frac{1}{2}$ -inch No. 22 trap to wall.

As described, $74\frac{1}{2} \times 20\frac{1}{4}$ inches with sink 30 x 20 inches. \$

Same, $78\frac{1}{2} \times 22\frac{1}{4}$ inches with sink 32 x 22 inches. \$

The legs furnished regularly with the above sink are adjustable, so that the sink may be set up with the rim from 30 to 36 inches above the floor.

PLATE W-1860 takes foremost rank as a thoroly modern and sanitary fixture. The legs carry the greater part of the weight and take the strain from the wall. The sink, drain boards, back and apron are all in one piece without a joint or seam to catch stray dust or grease. The enameled surface is the finest produced and can be kept spotlessly clean with little effort.

Plate W-1861. Hajoca soap holder white Vitreo china to recess into tile wall, 6 x 3-inch flange. \$

The soap holder to recess into tiled wall has become popular for use over kitchen sinks in tiled kitchens. The gloss surface harmonizes with the tile and can be kept sweet and clean by wiping now and then with a damp cloth. The holder is out of the way and does not encroach on sink or kitchen space.



Plate W-1861

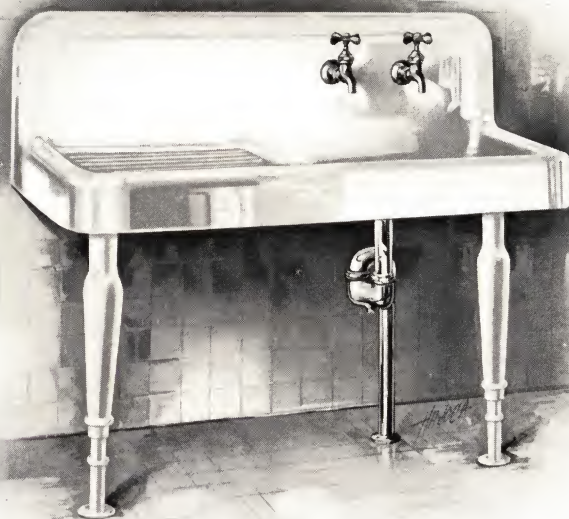


Plate W-1862

Hajoca No. 214 porcelain enameled roll rim kitchen sink with 12-inch integral back, apron and left-hand integral drain board, concealed wall hangers and porcelain enameled adjustable legs, nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread and No. 3-C china index handles and $1\frac{1}{2}$ -inch No. 22 trap to floor.

As described, $52\frac{1}{2} \times 20\frac{1}{4}$ inches with sink 30 x 20 inches.....\$
 Same, $60\frac{1}{2} \times 22\frac{1}{4}$ inches with sink 36 x 22 inches.....\$

This sink can be furnished with drain board on left side as shown or on right side; when ordering specify which is wanted.

THE sinks shown on this page are among our most popular designs. The sink, back, drain board and apron are all made in one single piece, the apron adding the final touch of beauty to the handsome snow-white appearance of the outfit. The variety of sizes provides a suitable fixture for either the large or the small kitchen.



Plate W-1863

Plate W-1863. Hajoca No. 214 porcelain enameled roll rim "Kitchenette" sink with 12-inch integral back, apron and left-hand integral drain board, concealed wall hangers, nickel-plated waste strainer and coupling, Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flange and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions— $42\frac{1}{2} \times 20\frac{1}{4}$ inches with sink 24 x 20 inches.

As described.....\$

This sink can be furnished with drain board on left side as shown, or on right side; when ordering, specify which is wanted.

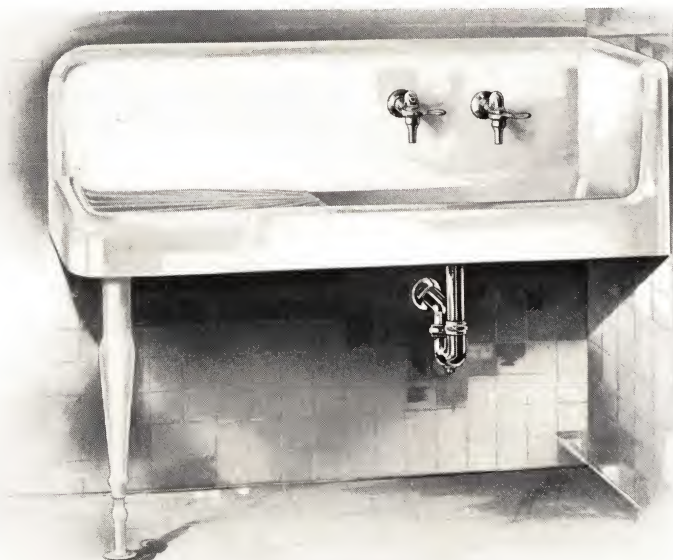


Plate W-1864

Hajoca No. 218 porcelain enameled roll rim kitchen sink with 12-inch integral back and right end, apron and left-hand integral drain board, concealed wall hangers and porcelain enameled adjustable leg, nickel-plated waste strainer and coupling, Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flanges and $1\frac{1}{2}$ -inch No. 22 trap to wall.

As described, $42\frac{1}{4} \times 20\frac{1}{4}$ inches with sink 24 x 20 inches (no leg included)....\$
 Same, $52\frac{1}{4} \times 20\frac{1}{4}$ inches with sink 30 x 20 inches (leg included).....\$
 Same, $60\frac{1}{4} \times 22\frac{1}{4}$ inches with sink 36 x 22 inches (leg included).....\$

This sink can be furnished with drain board on left side as shown or on right side and with the end piece at the sink end as shown or at the drain board end.

When ordering, specify which arrangement is desired.

Plate W-1868. Hajoca No. 222 porcelain enameled roll rim sink for recess with 12-inch integral back and right and left ends, apron and right-hand integral drain board, concealed wall hangers, nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread and $1\frac{1}{2}$ -inch No. 22 trap to wall.

As described, $52 \times 20\frac{1}{4}$ inches with sink 30 x 20 inches.....\$
 Same, $60 \times 22\frac{1}{4}$ inches with sink 36 x 22 inches.....\$

Plate W-1868 can be furnished with drain board on right-hand side as shown or on left-hand side; when ordering specify which is wanted.



Plate W-1868



Plate W-1870

Hajoca No. 310 porcelain enameled inside roll rim kitchen sink with 12-inch integral back and right and left-hand integral drain boards, concealed wall hangers and painted iron adjustable legs, nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Dimensions—Length, 60 inches; from wall to front, 22 inches; sink, 26 x 22 inches.

As described.....\$

THIS sink with back and two drain boards is made in one integral piece without joint or seams to harbor unseen grease or dirt. It is a most suitable design for moderate price construction.

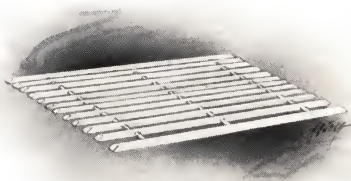


Plate W-1871

Hajoca hardwood mats not only protect the surface of the sink from damage from pots and kettles, but also lessen the risk of breaking china or glassware. They are made from smoothed round rods of selected hardwood held in place by flexible cross pieces. All parts are easily accessible for cleaning, and the mat can be removed and hung up to dry when not in use.

For sizes, etc., see page 279.



Plate W-1874

Hajoca No. 314 porcelain enameled inside roll rim kitchen sink with 12-inch integral back and right-hand integral drain board, concealed wall hangers and painted iron adjustable legs, nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread and $1\frac{1}{4}$ -inch No. 22 trap to wall.

As described, 42 x 20 inches with sink 24 x 20 inches (no legs included).....\$
 Same, 46 x 20 inches with sink 30 x 20 inches (legs included).....\$
 Same, 52 x 20 inches with sink 30 x 20 inches (legs included).....\$
 Same, 52 x 22 inches with sink 30 x 22 inches (legs included).....\$
 Same, 60 x 22 inches with sink 36 x 22 inches (legs included).....\$

Plate W-1874 can be furnished with drain board on right side as shown, or on left side. When ordering specify which is wanted.

Plate W-1876 (not illustrated). **Hajoca No. 318** porcelain enameled inside roll rim kitchen sink with 12-inch integral back, right end and right-hand integral drain board, concealed wall hangers and painted iron adjustable leg, nickel-plated waste strainer and coupling, $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread and $1\frac{1}{4}$ -inch No. 22 trap to wall.

As described, 46 x 20 inches with sink 30 x 20 inches.....\$
 Same, 52 x 20 inches with sink 30 x 20 inches.....\$
 Same, 52 x 22 inches with sink 30 x 22 inches.....\$
 Same, 60 x 22 inches with sink 36 x 22 inches.....\$

Plate W-1876 can be furnished with drainboard on left side or on right side and with the end piece at the sink end or at the drain board end.

When ordering, specify which arrangement is wanted.



Plate W-1884

Hajoca No. 352 "Extra Deep" porcelain enameled inside roll rim kitchen sink with 12-inch integral back and concealed wall hanger, nickel-plated waste strainer and coupling, Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flanges and $1\frac{1}{2}$ -inch No. 22 trap to floor.

Size, inches.....	24 x 20 x 8	30 x 22 x 8	36 x 22 x 8
As described.....	\$	\$	\$

The exterior of sink is painted one coat.

THE "Extra Deep" sink was originated by Haines, Jones and Cadbury Company, and has become a most popular design. It is large and roomy with extra depth so that dish pans placed in it will be considerably below the rim. This feature prevents water from spilling over the rim of the sink, and appeals to every one interested in good, orderly housekeeping.



Plate W-1885
Hajoca Quick Faucet

TO insure the greatest ease and convenience from the use of the modern sanitary kitchen sink, Hajoca Quick faucets should be a part of the equipment.

This device is a time and labor saver, and gives the full flow of water in about a fifth of a second. A mere touch from the finger, wrist or elbow opens or closes it. There is no need to use the hand. The stream issues in a solid non-spattering column.

The faucet is attractive in appearance and is made with our usual care, so as to give satisfactory and long service.

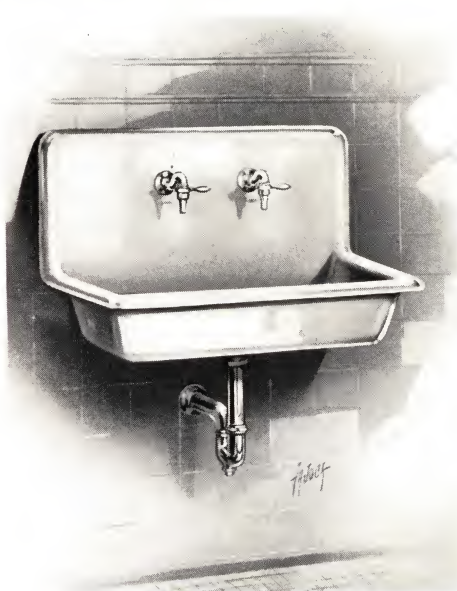


Plate W-1886

Plate W-1886. Hajoca No. 352 porcelain enameled inside roll rim kitchen sink with 12-inch integral back and concealed wall hanger, nickel-plated waste strainer and coupling, Quick faucets for $\frac{1}{2}$ -inch iron pipe, outside thread, with loose flanges and $\frac{1}{4}$ -inch No. 22 trap to wall.

THE variety of sizes in which this sink is made and its adaptability to almost any kitchen requirements have made it one of our most popular designs. The sink with back is made in one piece, leaving no crevices or joint in which stray dirt or grease can collect. Ample support is obtained from the concealed wall hanger; where the wall cannot be depended upon for sufficient support, the use of legs is recommended. This sink is of superior manufacture, and the porcelain enamel is the finest produced.

As described, 18 x 18 inches.....	\$
Same, 20 x 20 inches.....	\$
Same, 24 x 16 inches.....	\$
Same, 24 x 18 inches.....	\$
Same, 24 x 20 inches.....	\$
Same, 30 x 18 inches.....	\$
Same, 30 x 20 inches.....	\$
Same, 30 x 22 inches.....	\$
Same, 36 x 18 inches.....	\$
Same, 36 x 20 inches.....	\$
Same, 36 x 22 inches.....	\$
Same, 40 x 20 inches.....	\$
Same, 42 x 22 inches.....	\$

If with two $\frac{1}{2}$ -inch No. 20 flanged compression faucets for iron pipe outside thread instead of Quick faucets, deduct \$.

If with $\frac{1}{4}$ -inch No. 44 trap to wall instead of No. 22 trap, deduct \$.

For painted iron adjustable legs, add per pair, \$.

The exterior of the above sink is painted one coat.

Plate W-1887. Hajoca No. 906 cast iron drain-board bracket, for wood drainboard.

Painted, each.....\$

This bracket is suitable for wood drainboards in any widths from 16 inches up.

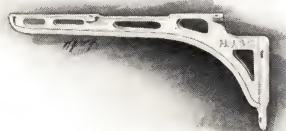


Plate W-1887

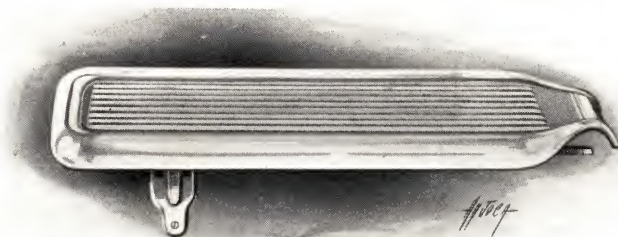


Plate W-1888

Hajoca porcelain enameled interchangeable drainboard with bracket.

Length, inches.....	18	24
For sinks 16 inches wide.....	\$	\$
For sinks 18 inches wide.....	\$	\$
For sinks 20 inches wide.....	\$	\$
For sinks 22 inches wide.....	\$	\$

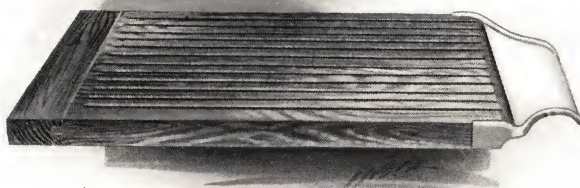


Plate W-1889

Hajoca grooved hardwood interchangeable drainboard with porcelain enameled end piece; for roll rim sinks (bracket extra).

Length, inches.....	18	24	30
For sinks 16 inches wide.....	\$	\$	\$
For sinks 18 inches wide.....	\$	\$	\$
For sinks 20 inches wide.....	\$	\$	\$
For sinks 22 inches wide.....	\$	\$	\$

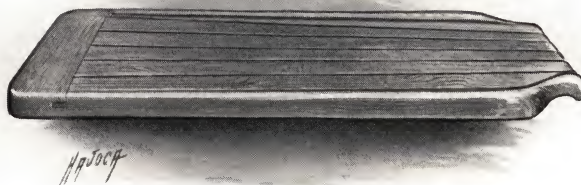


Plate W-1890

Hajoca grooved hardwood interchangeable drainboard (bracket extra).

Length, inches.....	18	24	30	36
For sinks 18 inches wide.....	\$	\$	\$	\$
For sinks 20 inches wide.....	\$	\$	\$	\$
For sinks 22 inches wide.....	\$	\$	\$	\$

For painted iron bracket for use with Plates W-1889 or W-1890, see Plate W-1887.



Plate W-1894

Hajoca German silver pantry sink with 2-inch rim, 12-inch box back, double sink with "S" partition, right and left-hand drainboards, apron, nickel-plated brass legs, No. 24 compression combination faucet with swinging nozzle, No. 12-C all china index handles and china base flanges, two No. 30 wastes with stand pipes and china knob handles, double waste connection and 1½-inch No. 10 trap to wall.

Dimensions—Length, see below; from wall to front, 24 inches; double sink is 45 inches long, 18½ inches wide and 6 inches deep.

Length over all, inches.....	85	97
Length of each drainboard, inches.....	18	24
As described.....	\$	\$
Same, except tinned copper instead of German silver.....	\$	\$

THIS fixture presents a handsome appearance which cannot be adequately reproduced in an illustration and must be seen to be fully appreciated, the entire surface, including sinks, drainboards, back and apron, being covered with brilliantly polished metal. By means of the swinging nozzle of the combination faucet, running water of any desired temperature can be drawn in either compartment of the double sink.



Plate W-1895

Plate W-1895. Hajoca No. 30 nickel-plated brass sink waste with stand pipe and china knob handle, each \$.

THE standpipe of the No. 30 waste retains a quantity of water in the sink for washing the dishes, while the openings near the top prevent overflowing. When the water is released it escapes in sufficient volume to thoroly flush the waste pipe. The ground brass seat is not affected by hot water or grease.



Plate W-1896

Hajoca tinned copper pantry sink with 1-inch roll rim, 12-inch box back, double sink, right and left-hand drainboards, hardwood aprons, nickel-plated brass legs and painted iron brackets, No. 24 compression combination faucet with swinging nozzle, No. 12-C china index handles and china base flanges, two No. 30 wastes with stand pipes and china knob handles, double waste connection and 1½-inch No. 10 trap to wall.

Dimensions—Length, see below; from wall to front, 24 inches; double sink is 48 inches long, 18 inches wide and 6 inches deep.

Length over all, inches.....	96	108
Length of each drainboard, inches.....	24	30
As described.....	\$	\$
Same, except German silver instead of tinned copper.....	\$	\$

Hajoca German silver and tinned copper sinks as shown above and on pages 272 and 274 are the ideal fixture for the pantry. The sheet metal with which both sinks and drainboards are covered is much less rigid than porcelain enamel, marble or slate, thus saving chipping or breaking of fine glass and china. The drainboards will not absorb moisture or grease.

For fine appearance, durability and ease of maintenance we specially recommend our German silver pantry sinks. Outfits made of this material will last indefinitely; the metal is uniform in color thruout, and can be continuously scoured without tarnishing, discoloring or losing its bright polish.

The tinned copper sinks present the same advantages as the German silver at a more moderate price. The material, however, is not so tough or durable, and care should be taken not to use sand soap or other cleaning preparations containing grit, as they will in time remove the tinned surface of the copper.

In the construction of Hajoca metal pantry sinks the highest grade of workmanship is employed. They are made with fewest possible seams, and where joints are necessary they are so skilfully constructed as to be inconspicuous. In addition to the sizes and styles illustrated, we are prepared to furnish outfits in any length or width to suit special conditions. Orders should be accompanied by a sketch with measurements.

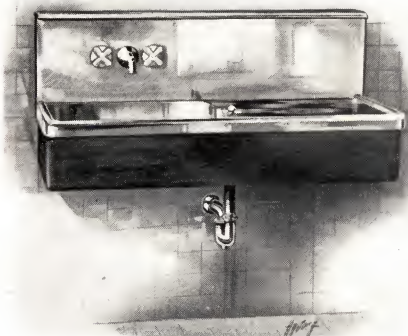


Plate W-1898

Plate W-1898. Hajoca tinned copper pantry sink with 1-inch roll rim, 12-inch box back, sink with recess for waste, right-hand drainboard, hardwood aprons, galvanized iron brackets, nickel-plated No. 24 compression combination faucet with No. 12-C china index handles and china base flanges, No. 30 waste with stand pipe and china knob handle and 1½-inch No. 22 trap to wall.

Dimensions — Length, see below; from wall to front, 24 inches; sink, 24 x 16 inches and 6 inches deep.

Length over all, inches	42	48
Length of drainboard, inches	18	24
As described	\$	\$
Same, except German silver instead of tinned copper	\$	\$



Plate W-1900

Hajoca No. 352 "Extra Deep" porcelain enameled inside roll rim pantry sink with 12-inch integral back, concealed wall hanger, connected waste and overflow with nickel-plated plug, rubber stopper and chain, No. 23 combination supply faucet with goose-neck nozzle and No. 3-C china index handles, 1½-inch Hajoca No. 22 trap to wall and two 24-inch grooved hardwood interchangeable drainboards with painted iron brackets.

Sizes, inches	24 x 20 x 8	30 x 22 x 8	36 x 22 x 8
As described	\$	\$	\$

By means of the combination faucet the running water may be tempered as desired, a feature which will be found a great convenience in the pantry. The goose-neck nozzle shown above gives added height for filling pitchers, tall glasses, flower vases, etc., and with the "Extra Deep" sink makes a practical combination for the pantry in preventing nicking of fine china and glassware against the faucet.

Plate W-1902. Hajoca square cased tinned copper pantry sink, with connected overflow at end of sink.

Sizes, inches..... 20 x 14 24 x 16

As described.....\$ \$

Same, German silver...\$ \$

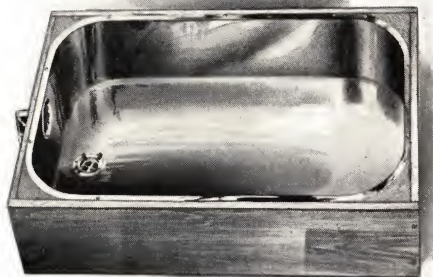


Plate W-1902

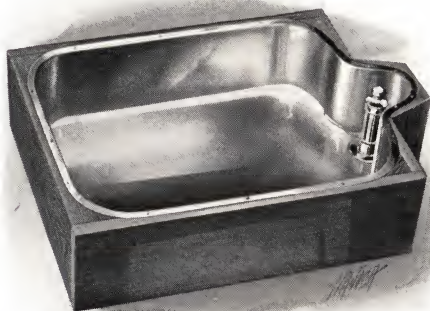


Plate W-1904

Plate W-1904. Hajoca square cased tinned copper pantry sink, with recess at end and nickel-plated Hajoca No. 30 waste with stand pipe and china knob handle.

Sizes, inches..... 20 x 14 24 x 16

As described.....\$ \$

Same, German silver...\$ \$

Dimensions are inside and do not include recess.

Plate W-1908. Hajoca Regal porcelain flat rim pantry sink, glazed inside, with or without overflow.

Sizes, in. 20 x 14 24 x 17 28 x 17 30 x 20

As de-
scribed \$ \$ \$ \$

For nickel-plated waste strainer and coupling, add \$

For nickel-plated waste plug and coupling and overflow grate and bent coupling, add \$

When ordering specify if wanted with or without overflow.

PANTRY sinks shown on this page are intended for use under wood, slate or marble tops.



Plate W-1908



Plate W-1912

Hajoca galvanized roll rim steel scullery sink with 15-inch integral back, outlet enclosure and galvanized steel angle frame and legs, galvanized soap cup, brass waste strainer with stopper, chain and chain holder, two polished high nozzle Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flanges and 2-inch No. 22 trap to floor.

Dimensions—Sink, 60 x 24 inches x 12 inches deep inside measurements; height to top of rim, 30 inches.

As described.....\$

This sink can also be fitted with a grease trap as shown page 302.

THIS sink is extra large and extra deep, and is intended to accommodate kettles, pots and other heavy kitchen utensils. Being made of heavy galvanized sheet steel it is very strong and will readily withstand the wear and tear to which such a fixture is liable to be subjected. The perforated partition which forms the outlet enclosure prevents the clogging of the waste outlet and trap. The sink is suitable for the kitchens of large residences, hotels, restaurants, schools and colleges, institutions, etc.



Plate W-1914

Hajoca No. 952 cast iron roll rim kitchen sink with 12-inch integral back and concealed wall hanger, strainer, collar and bolts, nickel-plated Quick faucets for $\frac{1}{2}$ -inch iron pipe outside thread with loose flanges and $1\frac{1}{4}$ -inch No. 22 trap to wall.

Sizes, inches	24 x 18	30 x 20	36 x 22	42 x 20
Galvanized	\$	\$	\$	\$
Plain	\$	\$	\$	\$



Plate W-1916

Hajoca cast iron round corner flat rim kitchen sink with strainer, collar and bolts.

Sizes, inches	24 x 16	24 x 18	30 x 18	30 x 20	36 x 18
Galvanized	\$	\$	\$	\$	\$
Plain	\$	\$	\$	\$	\$



Plate W-1920

Hajoca porcelain enameled square corner flat rim kitchen sink with nickel-plated strainer and coupling.

Plate W-1921, as above, except with nickel-plated open strainer, collar and bolts

Plate W-1920 can be converted into a sink with plug by removing the strainer and inserting a 1½-inch rubber stopper.

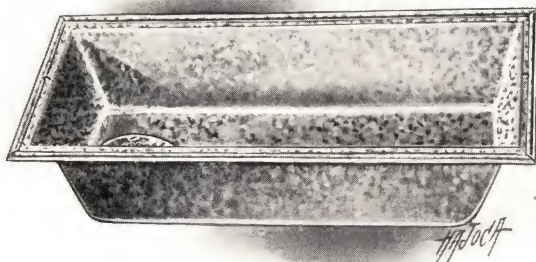


Plate W-1922

Hajoca cast iron square corner flat rim kitchen sink with strainer, collar and bolts.

Sizes, inches	Plate W-1920 Porcelain enameled	Plate W-1921 Porcelain enameled	Plate W-1922 Galvanized Plain	Sizes, inches	Plate W-1920 Porcelain enameled	Plate W-1921 Porcelain enameled	Plate W-1922 Galvanized Plain
18 x 12. \$	\$	\$	\$	36 x 22. \$	\$	\$	\$
20 x 14. \$	\$	\$	\$	40 x 20. \$	\$	\$	\$
24 x 16. \$	\$	\$	\$	48 x 24. \$	\$	\$	\$
24 x 18. \$	\$	\$	\$	60 x 20. \$	\$	\$	\$
24 x 20. \$	\$	\$	\$	60 x 24. \$	\$	\$	\$
30 x 18. \$	\$	\$	\$	62 x 22. \$	\$	—	—
30 x 20. \$	\$	\$	\$	72 x 20. \$	\$	\$	\$
36 x 18. \$	\$	\$	\$	72 x 24. \$	\$	\$	\$
36 x 20. \$	\$	\$	\$				

Plate W-1922 can be fitted with patent overflow, and with plug in place of strainer on all sizes at an additional charge of \$.

Plate W-1920 can be fitted with patent overflow on sizes up to and including 48 x 24 inches at an additional charge of \$.

Plate W-1921 cannot be fitted with patent overflow.

Plates W-1920 and W-1921 are painted one coat outside.

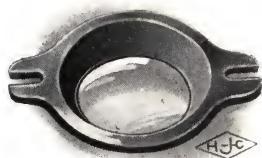


Plate W-1928

Hajoca cast iron sink collar for lead pipe.

Galvanized, each.....\$

Plain, each.....\$



Plate W-1929

Hajoca cast iron sink collar tapped for 1 1/4 or 1 1/2-inch iron pipe.

Galvanized, each.....\$

Plain, each.....\$

Plate W-1930. Hajoca sink or drain-board mat.

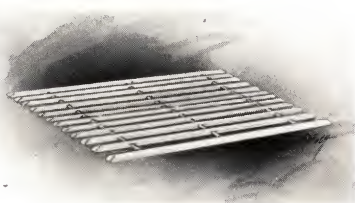


Plate W-1930

Size of mat, in..	16 x 14	17 x 11	17 x 12	21 x 15	23 x 11	23 x 13	23 x 16	28 x 13	28 x 15
Size of sink, in..		24 x 18	24 x 20		30 x 18	30 x 20		36 x 20	36 x 22
Size of drain-board, inches.	20 x 20			24 x 20			26 x 22		
Hardwood.....	\$			\$	\$	\$	\$	\$	
Ivoryoid.....	\$	\$	\$	\$	\$	\$	\$	\$	\$

Hajoca mats not only protect the surface of the sink from damage from cooking utensils, but also lessen the risk of breaking china or glassware. They are made from smoothed round rods of selected hardwood held in place by flexible cross pieces. All parts are easily accessible for cleaning, and the mat can be removed and hung up to dry when not in use.

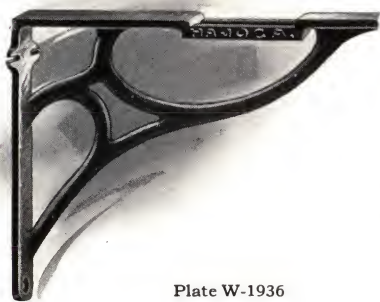


Plate W-1936

Plate W-1936. Hajoca cast iron sink bracket.

No.	Sizes, inches	Takes sinks up to	Galvanized, each	Plain, each
901	11 3/4 x 10	17 in. wide	\$	\$
902	14 x 10 1/2	20 in. wide	\$	\$
903	18 x 12 1/2	26 in. wide	\$	\$
904	18 x 16	26 in. wide	\$	\$



Plate W-1950

Plate W-1950. Hajoca No. 652 Regal porcelain roll rim slop sink with 12-inch integral back on No. 222 porcelain enameled inside trap standard, with nickel-plated waste strainer and two $\frac{3}{4}$ -inch No. 20 flanged compression faucets for iron pipe inside thread.

Sizes, inches..... 22 x 20 24 x 22

As described.....\$ \$

For No. 50 brass floor plate and bolts for 3-inch lead pipe, add.....\$

The trap standard furnished with the above sink is painted one coat on the outside.

Hajoca Regal porcelain slop sinks are not only handsome in appearance, but are very strong and serviceable and their smooth glazed surface is easily kept clean.

Plate W-1951. Hajoca No. 652 Regal porcelain roll rim slop sink with 12-inch integral back on No. 233 porcelain enameled inside trap standard with outlet to wall threaded for 3-inch iron pipe, with nickel-plated waste strainer, No. 24 compression combination supply faucet with No. 12-C all china index handles and china base flanges, $\frac{1}{2}$ -inch iron pipe weight supply pipes to wall with loose key stops and brass rim guard.

Sizes, inches..... 22 x 20 24 x 22

As described.....\$ \$

If without nickel-plated brass rim guard, deduct \$

A slop sink is convenient in the modern residence; it provides a suitable receptacle for filling and emptying buckets, thus avoiding injury to the bath tubs or water closet when used for this purpose. In public buildings they are an almost indispensable part of the equipment of toilet and janitors' rooms.



Plate W-1951



Plate W-1953

Plate W-1953. Hajoca No. 651
Regal porcelain all roll rim slop sink on No. 233 porcelain enameled inside trap standard with outlet to wall threaded for 3-inch iron pipe, with nickel-plated waste strainer and No. 24 compression combination supply faucet with No. 12-C all china index handles and china base flanges, long nozzle, bucket hook and wall brace.

Sizes, inches.....22 x 18 24 x 20

As described.....\$ \$

Plate W-1956. Hajoca No. 352
porcelain enameled inside roll rim slop sink with 12-inch integral back on No. 222 porcelain enameled inside trap standard, with nickel-plated strainer and two 1/2-inch No. 20 flanged compression faucets for iron pipe outside thread.

Sizes, in..20 x 16 22 x 18 22 x 20 24 x 20

As de-
scribed...\$ \$ \$ \$

For No. 50 brass floor plate and bolts, for 3-inch lead pipe, add \$.

Plate W-1960 (not illustrated). Hajoca No. 952 cast iron roll rim slop sink with 12-inch integral back on No. 922 cast iron trap standard with open strainer and two 1/2-inch No. 20 flanged compression faucets for iron pipe outside thread (as shown Plate W-1956, but in cast iron).

Sizes, inches.....22 x 20 24 x 20

As described, galvanized.....\$ \$

Same, plain.....\$ \$



Plate W-1956



Plate W-1962

Plate W-1962. Hajoca No. 352 porcelain enameled inside roll rim slop sink with 12-inch integral back drilled for combination faucet, on No. 222 porcelain enameled inside trap standard, with nickel-plated strainer and No. 23 compression combination supply faucet with No. 3-C index handles.

Sizes, inches			
20 x 16	22 x 18	22 x 20	24 x 20
As described			
\$	\$	\$	\$

For No. 50 brass floor plate and bolts for 3-inch lead pipe, add \$.

Plate W-1966. Hajoca No. 351 porcelain enameled inside all roll rim slop sink on No. 222 porcelain enameled inside trap standard, with nickel-plated strainer and No. 11 double compression faucet with No. 3-C china index handles, long nozzle, bucket hook and wall brace and $\frac{3}{4}$ -inch iron pipe weight supply pipes to floor with union connections and air chambers.

Sizes, inches				
20 x 16	22 x 18	22 x 20	24 x 20	30 x 20
As described				
\$	\$	\$	\$	\$

For No. 50 brass floor plate and bolts, for 3-inch lead pipe, add \$.

Plate W-1968 (not illustrated). Hajoca No. 951 cast iron all roll rim slop sink on No. 922 cast iron trap standard with open strainer and two $\frac{1}{2}$ -inch No. 20 compression faucets for iron pipe outside thread with loose adjustable flanges.

Size, inches	24 x 20
As described, galvanized	\$
Same, plain	\$

All of the above sinks are 12 inches deep.



Plate W-1966



Plate W-1970

Plate W-1970. Hajoca cast iron flat rim slop sink with strainer, collar and bolts.

Sizes, inches	Galvanized	Plain
16 x 16 x 10.....	\$	\$
20 x 14 x 12.....	\$	\$
20 x 16 x 12.....	\$	\$
24 x 20 x 12.....	\$	\$
30 x 20 x 12.....	\$	\$
36 x 20 x 12.....	\$	\$

Plate W-1972. Hajoca porcelain enameled flat rim slop sink with 2-inch center outlet, nickel-plated strainer and coupling with 1½-inch tail piece.

Plate W-1973, as above, except with 3-inch center outlet, nickel-plated strainer and coupling with 2 or 2½-inch tail piece.

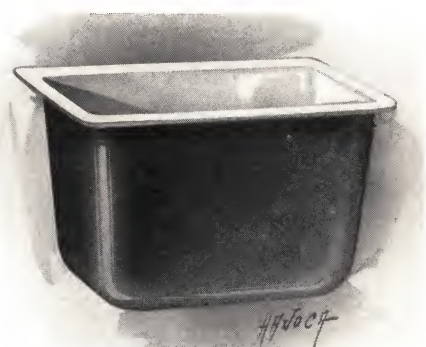


Plate W-1972

Sizes, inches	Plate W-1972		Plate W-1973	
	Porcelain enameled inside	Painted in and out	Porcelain enameled inside	Painted in and out
16 x 16 x 10.....	\$	\$	\$	\$
16 x 16 x 12.....	\$	\$	\$	\$
20 x 14 x 12.....	\$	\$	\$	\$
20 x 16 x 12.....	\$	\$	\$	\$
22 x 20 x 12.....	\$	\$	\$	\$
23 x 15 x 15.....	\$	\$	\$	\$
24 x 18 x 12.....	\$	\$	\$	\$
24 x 20 x 12.....	\$	\$	\$	\$
30 x 20 x 12.....	\$	\$	\$	\$
36 x 20 x 12.....	\$	\$	\$	\$
36 x 21 x 16.....	\$	\$	\$	\$
48 x 20 x 12.....	\$	\$	\$	\$
48 x 20 x 17.....	\$	\$	\$	\$
72 x 20 x 12.....	\$	\$	\$	\$



Plate W-1978

Plate W-1978. Hajoca No. 222 porcelain enameled inside cast iron trap standard with brass cleanout and hub vent and with outlet

for lead pipe, each.....\$

Plate W-1980. Hajoca No. 222 porcelain enameled inside cast iron trap standard with brass cleanout and hub vent and with outlet

for cast iron pipe, each.....\$

Plates W-1978 and W-1980 can be furnished without hub vent or with nickel-plated brass vent to wall.



Plate W-1980

Plate W-1982. Hajoca No. 233 porcelain enameled inside cast iron trap standard with brass cleanout and with threaded wall outlet for 3-inch iron pipe, each.....\$

By means of the nipple in the pedestal, any required vertical adjustment can be obtained.

Plates W-1978, W-1980 and W-1982 are painted one coat outside.



Plate W-1982

HAJOCA PLUMBERS' BRASS WORK

TO the architect and plumber, Hajoca Plumbers' Brass Work has always stood in the forefront as a product of exceptional high quality; to the consumer, it has invariably given unexcelled service.

This success has been attained by faithfully adhering to certain fundamental principles; our metal mixture is a rich red one, insuring castings of dependable worth; our designs are practical, with a full, clear water way and the external appearance is unusually attractive; the machine work is done by skilled mechanics operating machines and tools of precision and the finish is as fine as the best shop practice can produce.

For more than sixty years this quality and its resulting reputation have been consistently maintained, and to insure even a wider distribution of this quality product and its more general use, our foundry and factory have been recently equipped with the most modern machinery and devices obtainable, and our line thoroly put upon a standardized basis.

The accumulated experience of sixty years plus our modern methods of manufacture and the results of a standardized product enable us to offer now a line of brass work superior even to the high quality heretofore associated with the name "Hajoca."

Hajoca brass work is made in heavy, strong and durable designs and a constant reference to the following pages will insure a selection of faucets, etc., which will give exceptionally good and dependable service; other brass work such as bath faucets, wastes, supply fixtures, basin faucets, traps, showers and needle baths will be found in their respective portions of this catalog.

All Hajoca faucets are tested under heavy water pressure, thus insuring freedom from invisible sand holes and other imperfections not otherwise detected by a close range inspection.

HAJOCA QUICK FAUCETS

THE Hajoca "Quick" Faucet has been designed specially for kitchen and slop sinks and laundry trays, where quick and easy operation, durability and absence of splashing are particularly desirable. This faucet will save the housekeeper much time and will give freedom from annoyance; as a time-saving invention it is highly approved by architect, plumber and user.

QUICK TO OPERATE. A half-turn of the lever turns on the full stream and a reverse half-turn shuts the stream off. On account of this quickness of operation, there is a demand for the Hajoca "Quick" Faucet in hotels, cafes, and public institutions where the saving of time is important.

EASY TO OPERATE. The lever can be turned by a finger, a wrist or arm; housekeepers consider this as important as quickness in operation, for oftentimes both hands are occupied in kneading dough, etc. Hajoca "Quick" Faucets should always be installed in kitchens and laundries planned for efficiency, convenience and comfort.

NO SPATTER. The Hajoca "Quick" Faucet has a long outlet nozzle, and its flow comes in a straight, smooth, solid, rapid-flow stream. This feature appeals to the modern housekeeper, as it saves her floor and walls from being sprinkled when the water is turned on; there are no particles of hot water thrown off to scald. With this faucet pans and utensils are rapidly filled.

SIMPLE IN CONSTRUCTION. The Hajoca "Quick" Faucet has only a single washer, its construction being such that no top washer or packing is required. The seat washer is housed in a recess on a swivel disc; the swivel prevents the grinding of the seat on the washer when the faucet is closed, while the housing prevents the washer from becoming swollen or flattened and obstructing the flow.

USES. The special features of our "Quick" Faucets, in addition to advantages for sinks and trays, can frequently be applied to special purposes, such as filling pitchers, bottles or glasses in hotels or restaurants; also in hospitals, drug stores and wherever quickness, ease of operation and absence of spattering are required.

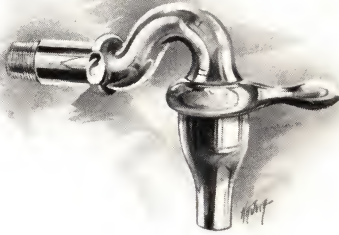


Plate W-2000

Hajoca Quick faucet for iron pipe.

Sizes, for iron pipe, inches.	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each.....	\$	\$
Nickel plated, each.....	\$	\$

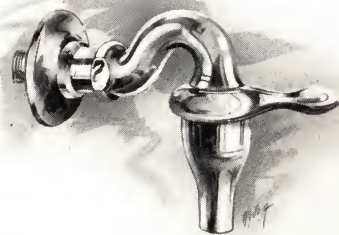


Plate W-2001

Hajoca Quick faucet for iron pipe, outside thread, with loose flange.

Sizes, for iron pipe, inches.	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each.....	\$	\$
Nickel plated, each.....	\$	\$

LOOSE flange faucets are easy to install; the faucet is screwed up to the proper position, after which the flange can be fitted snug against the sink back and is held in place by a set screw.

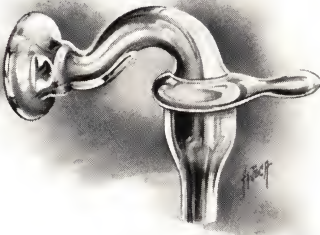


Plate W-2002

Hajoca Quick faucet flanged for iron pipe, inside thread.

Size, for iron pipe, inches.....	$\frac{1}{2}$
Polished, each.....	\$
Nickel plated, each.....	\$

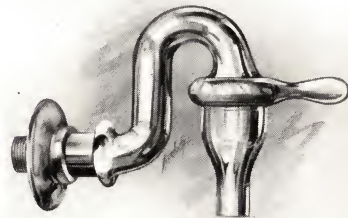


Plate W-2004
(Savill Patent)

Hajoca high nozzle Quick faucet for iron pipe, outside thread, with loose flange.

Size, for iron pipe, inches.....	$\frac{1}{2}$
Polished, each.....	\$
Nickel plated, each.....	\$

Plate W-2005 (not illustrated). Hajoca high nozzle Quick faucet flanged for iron pipe, inside thread.

Size, for iron pipe, inches.....	$\frac{1}{2}$
Polished, each.....	\$
Nickel plated, each.....	\$

FAUCETS with inside thread will be found specially convenient for use with Regal porcelain ware.

HAJOCA COMPRESSION WORK

For reliability and long wear Hajoca Compression Work has always been given the highest rating by the Plumbing Trade. With the adoption of the most approved modern appliances and machines in our brass foundry and finishing shops and our goods benefitted by standardization, Hajoca Compression Work is now made with even more precision and exactness than in those days when our reputation for a superior product was first established.

Many years' experience has demonstrated the dependable qualities of our red metal mixture as an exceptionally well-balanced bronze for the making of valves, faucets and fittings. We have supreme confidence in this metal mixture to produce satisfactory results no matter how severe the installation conditions may be.

All working parts and threads in our compression work are designed and built to reduce to a minimum lost motion and unnecessary wear. The caps are high and thoroly packed to prevent stem leakage. Our seat washer is of a special fibre composition of marked durability and it is "housed" in to prevent mashing or obstructing the water way. So popular has become our "butterfly" design handle that most of the faucets, etc., on the following pages are shown equipped with this design.



Plate W-2010

Hajoca No. 44 nickel-plated Quick double pantry faucet, with china lever

handles, each.....\$
Add for hose end.....\$



Plate W-2012

Hajoca No. 20 nickel-plated compression pantry faucet with No. 3-C china index handle, each.....\$5.55

Hajoca No. 15, as above, with stuffing box, each.....\$5.95
Add for hose end.....\$0.30

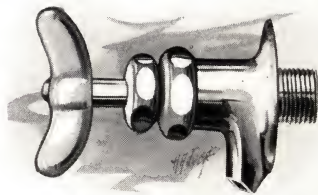


Plate W-2014

Hajoca No. 15 Shorto compression tray faucet with stuffing box, flanged for iron pipe, outside thread.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$1.95
Nickel plated, each.....	\$2.25

Plate W-2015 (not illustrated). Hajoca No. 15 Shorto compression tray faucet with stuffing box, flanged for iron pipe, inside thread.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$2.10
Nickel plated, each.....	\$2.40

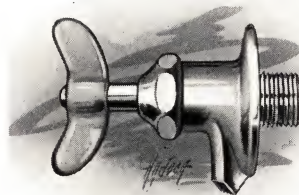


Plate W-2016

Hajoca No. 20 Shorto compression tray faucet, flanged for iron pipe, outside thread.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$1.55
Nickel plated, each.....	\$1.85

THE No. 15 and No. 20 Shorto tray faucets are especially well designed for laundry tub purposes and fitted so snug against the tray that striking the knuckles or tearing the linen is prevented.

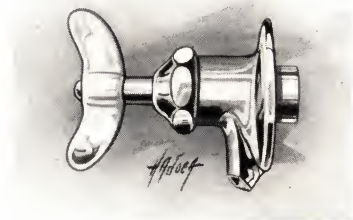


Plate W-2017

Hajoca No. 20 Shorto compression tray faucet, flanged for iron pipe, inside thread.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$1.70
Nickel plated, each.....	\$2.00

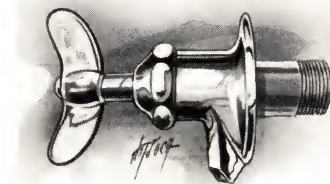


Plate W-2018

Hajoca No. 20 Shorto compression tray faucet, flanged with shank $1\frac{3}{8}$ inches long for iron pipe, outside thread.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$1.70
Nickel plated, each.....	\$2.00

FAUCETS with inside thread will be found especially convenient for use with Regal porcelain trays.

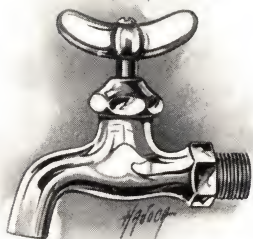


Plate W-2030

Plate W-2030. Hajoca No. 20 compression faucet for iron pipe.

Sizes, inches.....	$\frac{1}{2}$	$\frac{3}{4}$
Rough, each.....	\$1.45	\$1.90
Polished, each.....	\$1.65	\$2.10
Nickel plated, each.....	\$1.95	\$2.40

HAJOCA faucets are made of a rich red metal, exceptionally durable for valve purposes.

Plate W-2031. Hajoca No. 20 compression hose faucet for iron pipe.

Sizes, inches.....	$\frac{1}{2}$	$\frac{3}{4}$
Rough, each.....	\$1.70	\$2.15
Polished, each.....	\$1.90	\$2.35
Nickel plated, each.....	\$2.20	\$2.65

HAJOCA faucets are well designed and nicely proportioned; there is plenty of body to the castings.

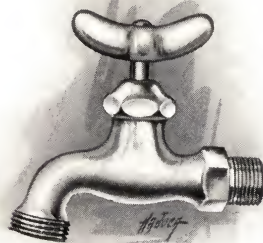


Plate W-2031

Plate W-2033. Hajoca No. 20 compression faucet with screw-on tail.

Sizes, inches....	$\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each...	\$2.00	\$2.00	\$2.50
Nickel plated, each.....	\$2.30	\$2.30	\$2.80
For hose end, add, each.....			\$0.25

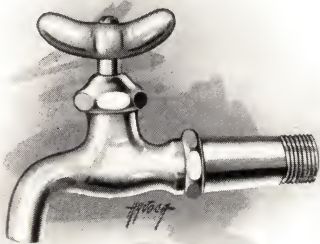


Plate W-2033

EVERY Hajoca faucet is tested under high pressure and is guaranteed to give entire satisfaction.

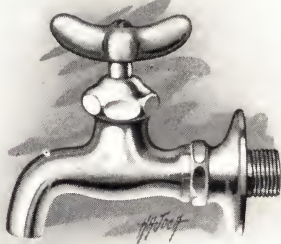


Plate W-2036

Plate W-2036. Hajoca No. 20 compression faucet, flanged for iron pipe, outside thread.

Sizes, inches.....	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each.....	\$2.30	\$2.85
Nickel plated, each.....	\$2.60	\$3.15
For hose end, add, each.....	\$0.25	

THE threads on Hajoca compression faucets give a quick opening, requiring less than a half turn to insure the full flow.

Plate W-2037. Hajoca No. 20 compression faucet, flanged for iron pipe, inside thread.

Sizes, inches.....	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each.....	\$2.15	\$2.70
Nickel plated, each.....	\$2.45	\$3.00
For hose end, add, each.....	\$0.25	

HAJOCA faucets have "housed" washers which make them proof against mashing or choking the water way.

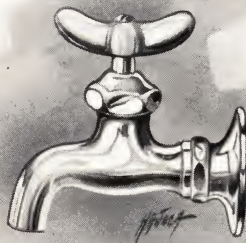


Plate W-2037

Plate W-2040. Hajoca No. 20 compression faucet for iron pipe with loose adjustable flange.

Sizes, inches.....	$\frac{1}{2}$	$\frac{3}{4}$
Polished, each.....	\$2.45	\$3.00
Nickel plated, each.....	\$2.75	\$3.30
For hose end, each, add.....	\$0.25	

The loose adjustable set screw flange permits a snug adjustment against the wall or sink back.

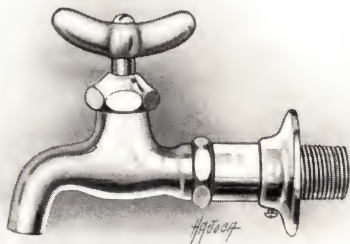


Plate W-2040

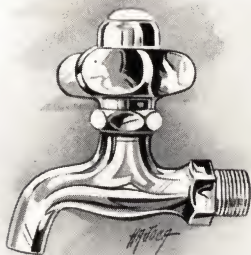


Plate W-2044

Plate W-2044. Hajoca No. 71 ball bearing self-closing faucet for iron pipe with china indexed Easy-grip handle.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$4.20
Nickel plated, each.....	\$4.70

Plate W-2046. Hajoca No. 71 ball bearing self-closing faucet, flanged for iron pipe, inside thread, with china indexed Easy-grip handle.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$4.70
Nickel plated, each.....	\$5.20

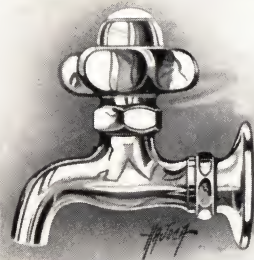


Plate W-2046

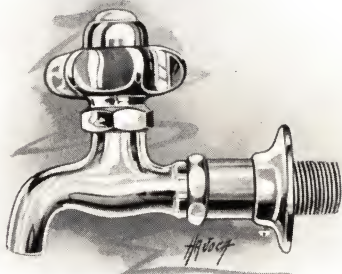


Plate W-2047

Plate W-2047. Hajoca No. 71 ball bearing self-closing faucet for iron pipe with loose adjustable flange and china indexed Easy-grip handle.

Size, inches.....	$\frac{1}{2}$
Polished, each.....	\$5.00
Nickel plated, each.....	\$5.50

SELF-CLOSING faucets can be used to advantage where the water supply is limited or under meter to prevent careless waste. The Hajoca No. 71 design is well suited for public service requirements. The handle fits the hand conveniently and can be easily operated but cannot easily be wedged open.

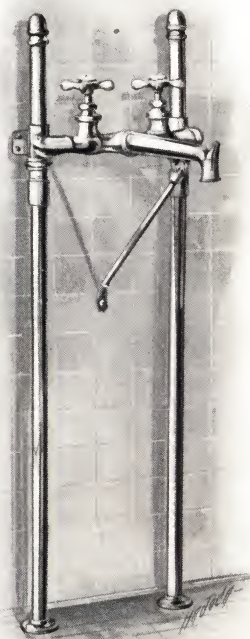


Plate W-2050

Plate W-2050. Hajoca No. 11 nickel-plated double compression faucet with No. 3-C china index handles, long nozzle with bucket hook and wall brace, $\frac{3}{4}$ -inch iron pipe weight supply pipes to floor with union connections and air chambers.

As described.....\$

Same, with wall brace to straddle flush pipe.....\$

Same, without bucket hook or wall brace \$

THE Hajoca No. 11 double compression faucet is designed for use with all roll rim slop sinks. The bucket hook and wall brace provide substantial support for holding buckets while being filled with water.

This faucet without the bucket hook and wall brace can also be used with all roll rim kitchen and pantry sinks.

Plate W-2052. Hajoca No. 14 nickel-plated double compression faucet with wall flanges, No. 3-C china index handles, bucket hook and wall brace.

As described.....\$

Same, with wall brace to straddle flush pipe.....\$

Same, without bucket hook and wall brace.....\$



Plate W-2052

THE Hajoca No. 14 double compression faucet is intended to be installed in tiled or plaster walls for use with all roll rim slop sinks. Without the bucket hook and wall brace it can be used with all roll rim kitchen and pantry sinks.

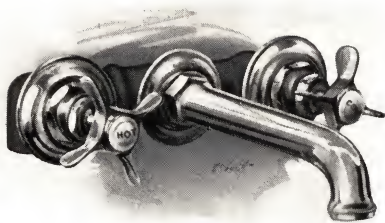


Plate W-2054

Plate W-2054. Hajoca No. 23 nickel-plated compression combination faucet with No. 3-C china index handles and wall flanges.

As described.....\$

The Hajoca No. 23 combination faucet is designed for use with porcelain enameled sink or lavatory backs.

Plate W-2055 (not illustrated). Hajoca No. 24 nickel-plated compression combination faucet with No. 12-C all china index handles and china base flanges.

As described.....\$

The Hajoca No. 24 combination faucet is designed for use with Regal porcelain kitchen, pantry and slop sinks; also for sheet metal pantry sinks and for installation in tiled or plaster walls.

Plate W-2058. Hajoca No. 23 nickel-plated compression combination faucet with No. 3-C china index handles, wall flanges, long nozzle, bucket hook and wall brace.

As described.....\$

The Hajoca No. 23 combination faucet with bucket hook and wall brace is designed for use with porcelain enameled slop sinks. The bucket hook and wall brace provide substantial support for holding buckets while being filled with water.

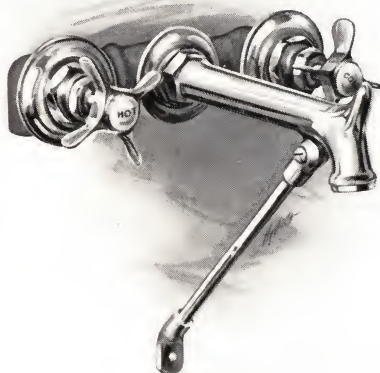


Plate W-2058

Plate W-2059 (not illustrated). Hajoca No. 24 nickel-plated compression combination faucet with No. 12-C all china index handles and china base flanges, long nozzle, bucket hook and wall brace.

As described.....\$

The Hajoca No. 24 combination faucet with bucket hook and wall brace is designed for use with all roll rim Regal porcelain slop sinks.



Plate W-2062

Plate W-2062. Hajoca No. 23 nickel-plated compression combination faucet with No. 3-C china index handles, wall flanges and goose-neck nozzle.

As described \$

The Hajoca No. 23 combination faucet with goose-neck nozzle is designed for use with porcelain enameled sink or lavatory backs. It allows room for rinsing the dishes and filling tall vases and pitchers.

Plate W-2063 (not illustrated). Hajoca No. 24 nickel-plated compression combination faucet with No. 12-C all china index handles and china base flanges and goose-neck nozzle.

As described \$

The Hajoca No. 24 combination faucet with goose-neck nozzle is designed for use with Regal porcelain and sheet metal sinks. It cannot be used with double compartment pantry sinks.

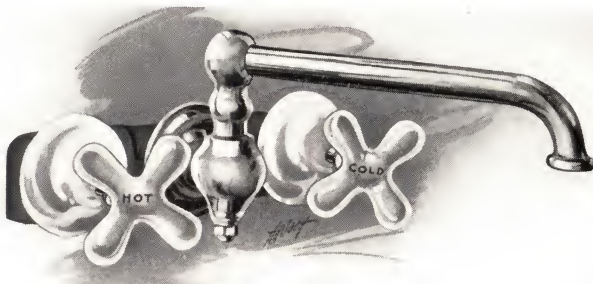


Plate W-2066

Hajoca No. 24 nickel-plated compression combination faucet with No. 12-C all china index handles, china base flanges and swinging nozzle.

As described \$

This faucet is intended for use with double sinks, the water being directed into either compartment desired by means of the swinging nozzle.

THE USE OF STOPS

Modern plumbing experts recommend the use of a stop on each supply pipe to control the volume of flow as well as for convenience when re-washing. This practice is equally desirable with exposed supply pipes as well as those concealed in the wall.

Such provision furnishes ready means to shut off the water from any supply pipe or fixture without interrupting the service to other parts of the line.

As the cap packing on a stop is under constant pressure when the stop is open, and that means by far the greater part of the time, all Hajoca stops are made with a heavy cap and a strong stuffing box containing a special good-wearing, well-lubricated packing; in this way all danger of leaking around the stem is removed.

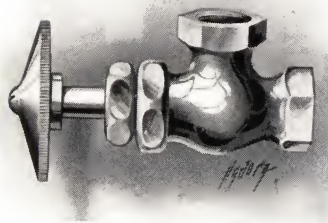


Plate W-2072

Hajoca No. 15 nickel-plated compression wheel handle angle stop for iron pipe with stuffing box.

$\frac{3}{8}$ inch, each	\$2.20
$\frac{1}{2}$ inch, each	2.60

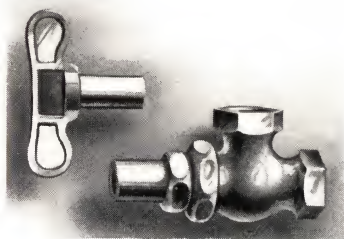


Plate W-2074

Hajoca No. 16 nickel-plated compression loose key angle stop for iron pipe with stuffing box.

$\frac{3}{8}$ inch, each	\$2.40
$\frac{1}{2}$ inch, each	2.80

One key furnished with each stop.

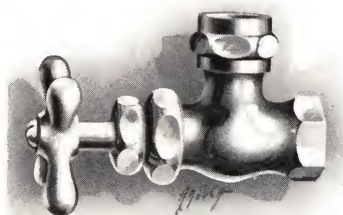


Plate W-2076

Hajoca No. 15 nickel-plated compression slip joint angle stop for iron pipe with cross handle and stuffing box.

$\frac{3}{8}$ -inch body for $\frac{1}{2}$ -inch iron pipe, each	\$2.45
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Hajoca compression stops take foremost rank for quality and satisfactory service. The metal from which they are made is of a high-grade red metal mixture of great toughness and long-wearing qualities. A distinctive feature is the heavy stuffing box which is carefully packed with a special packing to prevent stem leakage.



Plate W-2078

Hajoca No. 15 compression wheel handle stop for iron pipe with stuffing box.

Sizes, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Nickel plated, brass wheel.....	\$2.20	\$2.60	\$3.15
Rough, iron wheel...	—	1.85	2.35



Plate W-2080

Hajoca No. 15 compression stop for iron pipe with stuffing box.

Sizes, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$
Rough.....	\$1.55	\$1.85	\$2.35
Polished.....	1.70	2.05	2.55
Nickel plated.....	2.00	2.35	2.85

ATTENTION is directed to the massive yet well-proportioned lines of the Hajoca stop. The internal working parts are in keeping with the ruggedness of the design. Permanency of service and low upkeep cost will result from the installation of these stops.

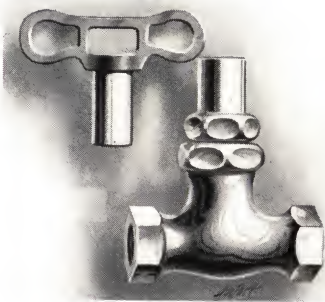


Plate W-2082

Hajoca No. 16 compression loose key stop for iron pipe with stuffing box.

Sizes, inches.....	$\frac{3}{8}$	$\frac{1}{2}$
Rough.....	\$1.95	\$2.30
Polished.....	2.10	2.50
Nickel plated.....	2.40	2.80

One key furnished with each stop.

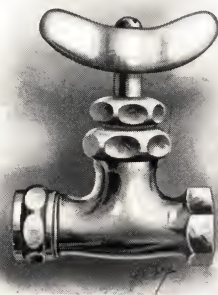


Plate W-2083

Hajoca No. 15 nickel-plated compression slip joint stop for iron pipe with stuffing box.

$\frac{3}{8}$ -inch body for $\frac{1}{2}$ -inch iron pipe and butterfly handle, each.....	\$2.25
Same with cross handle, each.....	2.45

Hajoca stops are tested under hydraulic pressure before being finally approved for shipment.

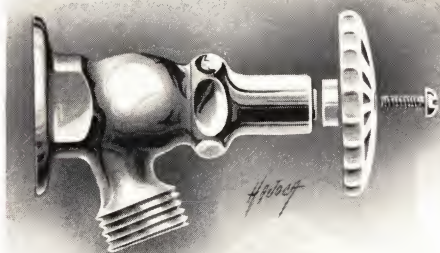


Plate W-2084

As the illustration of the Hajoca No. 20 "Duo" indicates, this sill cock may be used interchangeably as a wheel handle or a loose key device. By removing the screw the wheel handle becomes a loose key.

Hajoca No. 20 "Duo" rough nickel-plated wheel handle or loose key sill cock, flanged for $\frac{1}{2}$ or $\frac{3}{4}$ -inch iron pipe, inside thread.

Each..... \$2.90

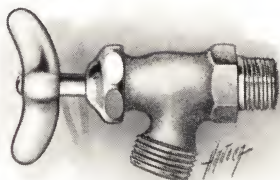


Plate W-2085

Hajoca No. 20 rough nickel-plated compression boiler drain faucet for $\frac{1}{2}$ -inch iron pipe, outside thread.

Each..... \$1.45

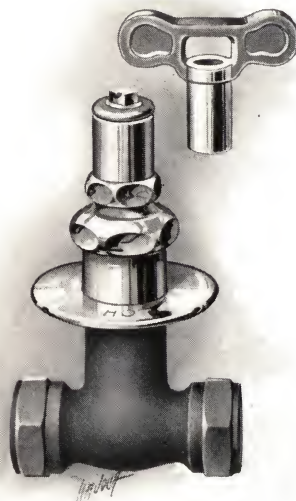


Plate W-2086

Hajoca No. 16 long neck compression stop with loose key and adjustable flange; rough brass with top and flange nickel plated; for $\frac{1}{2}$ -inch iron pipe.

Each.....\$

IN apartment houses, hotels, large residences and other buildings having a number of separate bathrooms, it is desirable to arrange the water supply so that it can be shut off from each room when necessary for repairing or re-washing the fixtures, without depriving other rooms of water. For this purpose a pair of Plate W-2086 stops placed on the branch hot and cold supply pipes to each bathroom will be found a satisfactory and economical arrangement, taking the place of two separate stops and risers from the cellar and individual stops for each fixture.

These stops can be re-washed when necessary from in front of the flange, without tearing up the floor or cutting into the wall.



Plate W-2092

Hajoca No. 15 "Relyo" compression stop and waste with stuffing box and wheel handle.

Sizes, inches...	1/2	5/8	1	1 1/4
Rough with iron wheel, each.....	\$2.45	\$2.95	\$6.40	\$11.90

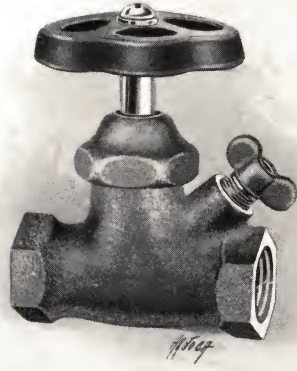


Plate W-2093

Hajoca No. 21 "Relyo" compression stop and waste with wheel handle.

Sizes, inches.....	1/2	5/8
Rough with iron wheel, each	\$2.05	\$2.50

Hajoca No. 15 AND No. 21 COMPRESSION STOPS AND WASTES

ALL the desirable mechanical features of Hajoca compression work have been embodied in the construction of these stops and wastes.

They can be used as a right or left-hand stop.

The following merits assure long service:

Strong, easy-grasp wheel handle.

Heavy lubricated special cap packing to prevent any leakage around the stem from the constant pressure on the cap when open.

Easy and quick opening threads.

"Housed" washer to prevent mashing of the fibre.

Long-service fibre washer.

Raised seat.

Red metal throughout.

The waste is under complete control of the user. To drain the pipe after the water is shut off, the user need only open the thumb screw. The thumb screw and waste are placed to effect an easy draining of the pipe when installed in the usual inverted position on the cellar ceiling. The thumb screw merely has to be loosened to allow the pipe to drain and never needs to be removed. This prevents loss.

The stop is independent of the waste and can be used for reducing the flow by partly closing the stop without any possibility of the waste leaking.



Plate W-2350

Plate W-2350. Hajoca cast brass waste plug with coupling and brass stopper, for laundry trays, sinks, etc.

Sizes, inches.....	1 1/4	1 1/2	2
Diameter of flange, inches.....	3	3 1/2	3 1/2
Polished top, each...	\$1.80	\$2.50	\$5.00
Nickel plated, each..	\$2.05	\$3.00	\$6.25

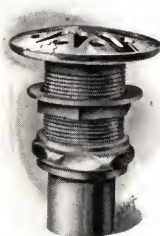


Plate W-2352

Plate W-2352. Hajoca cast brass waste strainer with coupling, for sinks, etc.

Size, 1 1/2 inches, with 3 1/2-inch flange.	
Polished top, each.....	\$2.50
Nickel plated, each.....	\$3.00

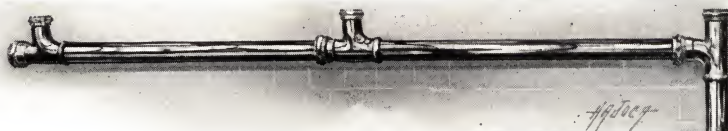


Plate W-2500

Hajoca nickel-plated continuous waste with outlet at end and slip joint nuts on inlets.

Number of inlets.....	2	3	4	5	6
Size of run, 1 1/2-inch.....	\$	\$	\$	\$	\$
Size of run, 2-inch.....	\$	\$	\$	\$	\$

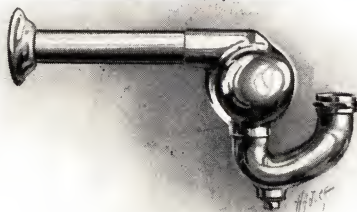


Plate W-2550

Hajoca No. 10 nickel-plated cast brass non-syphoning trap, with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/2	2
Each	\$	\$

Plate W-2552. Hajoca No. 10 nickel-plated cast brass non-syphoning trap with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1 1/2	2
Each	\$	\$

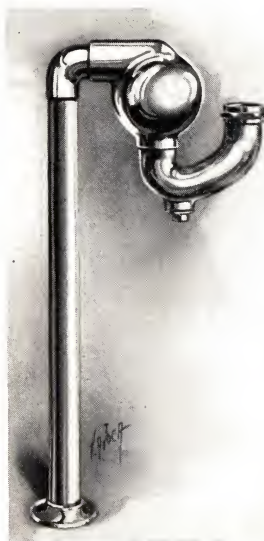


Plate W-2552

Plate W-2600 (not illustrated). Hajoca No. 32 nickel-plated cast brass trap with outlet tapped for iron pipe and wall flange and slip joint nut on inlet.

Sizes, inches.....	1 1/2	2
Each	\$	\$

1 1/2 or 2-inch nickel-plated iron pipe weight nipples can be furnished for Plate W-2600. When ordering, specify the length of nipples wanted.

When ordering 1 1/2 and 2-inch traps, give outside diameter of coupling to which trap is to be attached, so that slip joint nut of proper size may be sent.

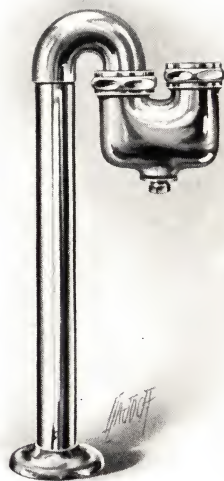


Plate W-2602

Hajoca No. 22 nickel-plated cast brass trap with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½	2
Each.....	\$	\$	\$
Same with vent, each..\$	\$	\$	\$

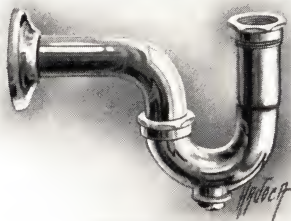


Plate W-2650

Hajoca No. 45 nickel-plated No. 17 gauge tubing trap with cleanout, pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½
Each.....	\$	\$

Plate W-2652 (not illustrated). Hajoca No. 44 nickel-plated tubing trap, no cleanout, with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½
Each.....	\$	\$
Same with vent, each.....\$	\$	\$

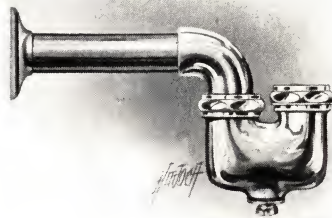


Plate W-2603

Hajoca No. 22 nickel-plated cast brass trap with pipe to wall and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½	2
Each.....	\$	\$	\$
Same with vent, each..\$	\$	\$	\$

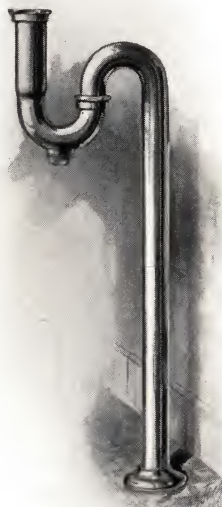


Plate W-2651

Hajoca No. 45 nickel-plated No. 17 gauge tubing trap with cleanout, pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½
Each.....	\$	\$

Plate W-2653 (not illustrated). Hajoca No. 44 nickel-plated tubing trap, no cleanout, with pipe to floor and flange and slip joint nut on inlet.

Sizes, inches.....	1¼	1½
Each.....	\$	\$
Same with vent, each.....\$	\$	\$

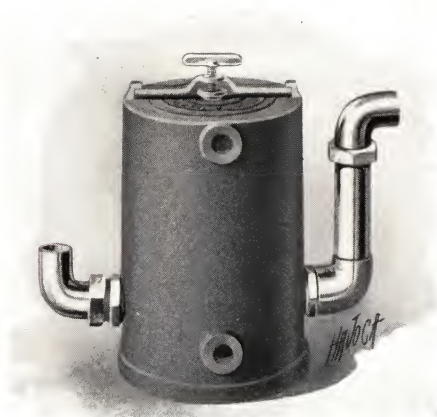


Plate W-3012

Plate W-3012. Hajoca water-jacketed grease trap with 2-inch nickel-plated brass inlet and outlet connections.

Number.....	210	211
Height of body, inches.....	16	18½
Diameter of body, inches....	10	18
Tappings of chilling chamber, inches.....	1	1¼
As described, porcelain enameled inside, each....	\$	\$
As described, painted, each.....	\$	\$
For vent connection, add.....	\$	
For 2-inch pipe to connect to sink, add.....	\$	

THE Hajoca No. 210 and No. 211 grease traps are intended for use with kitchen and pantry sinks, particularly where there is an unusual amount of greasy water to be disposed of and the use of the sink is continuous, as in hotels, restaurants, institutions, hospitals, etc. The choking of the waste pipes under such conditions cannot be prevented with an ordinary trap.

These grease traps are constructed with a chilling chamber or jacket (see Plate W-1841 for sectional illustration) which surrounds the body of the trap, but is entirely separated from it by a solid partition. The main water supply to the sink and range boiler is conducted thru this chilling chamber, so that whenever water is drawn at the sink a fresh supply of cold water enters the jacket. The waste water in the inner part of the trap is thus constantly cooled, congealing the grease, which floats to the top, where the cleanout plate permits its removal as frequently as is necessary, while the waste water, which has discharged its grease, escapes from near the bottom of the trap into the drain. The inner partition in the trap also assists in the separation of the grease.

Where the flow thru the trap is large or where the waste pipe returns again directly thru the floor, the outlet of the trap should be vented to prevent syphoning.

Plate W-3016. Hajoca No. 215 porcelain enameled inside grease trap with 2-inch nickel-plated brass inlet, outlet and vent connections.

Dimensions — Diameter outside, 15 inches; diameter inside, 12 inches; height of body, 9 inches; height over all, 12½ inches.

As described.....	\$
Same, without vent and pipe to floor.....	\$
For 2-inch pipe to connect to sink, add.....	\$

Trap will be furnished with connections as shown unless otherwise specified.

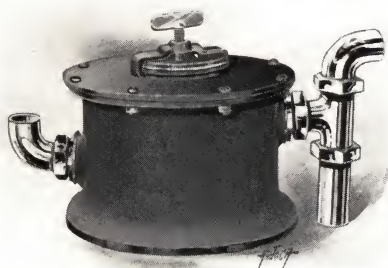


Plate W-3016



Plate W-3020

Hajoca No. 945 cast iron "S" trap with outlet threaded for iron pipe and with brass slip joint nut on inlet.

Sizes, inches.....	1½	2
Outlet threaded for.....	1½ I.P.	2 I.P.
Painted, each.....	\$1.80	\$2.70
Galvanized, each.....	2.45	3.70

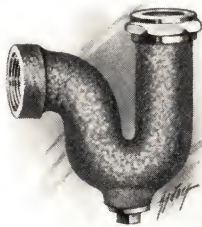


Plate W-3022

Hajoca No. 932 cast iron "P" trap with outlet threaded for iron pipe and with brass slip joint nut on inlet.

Sizes, inches.....	1½	2
Outlet threaded for.....	1½ I.P.	2 I.P.
Painted, each.....	\$1.45	\$2.45
Galvanized, each.....	1.95	3.20

CAST iron sink traps are well suited for use where moderate cost and great strength to stand rough service conditions are required.



Plate W-3024

Hajoca cast iron drum trap, 4 x 9 inches with nickel-plated cover and two openings tapped for 1½-inch iron pipe.

Painted, each.....	\$
Galvanized, each.....	\$



Plate W-3026

Hajoca nickel-plated funnel connection for sink collar.

With 1¼ or 1½-inch outlet tube, each,
\$.

For connecting sinks with lead pipe collar on outlet to any style of brass trap,

HAJOCA RANGE BOILERS AND WATER HEATING APPLIANCES

HOT water at all hours and in a copious supply is an indispensable necessity in the home as well as in hotels, clubs and other kinds of buildings in which plumbing fixtures are installed. The appliances most generally used for this purpose are shown on the following pages and include coal, gas and steam as the heating agents.

There are circulating range boilers to attach either to the water backs of kitchen coal ranges or to coils in the fire boxes of heaters. We recommend the copper and galvanized range boilers shown on the following pages. Where the water supply is limed or treated with chemicals for purification, we recommend extra heavy boilers, as they are more resistant to the effects of corrosion.

When a gas range is used for all or part of the year, an independent gas water heater may be attached to the side of the boiler and so installed that either gas, the water back connection or the heater box coil can be used for heating. For this purpose the range boiler with the gas heater built into the interior is specially efficient.

As the requirements for hot water in the household have steadily increased in recent years, the selection of a range boiler amply large is recommended. For normal requirements, the following table will be helpful in determining the sizes.

Size of Family	No. of Bathrooms	Size of boiler recommended
2	1	30 gallon
2	2	40 "
3-4	1	40 "
3-4	2	52 "
5-6	1	52 "
5-6	2	66 "
5-6	3	82 "
6-8	1	66 "
6-8	2	82 "
6-8	3	100 "

For a hot water supply of greater volume than that provided by the average range boiler, a large storage tank is recommended in which the water may be heated with steam coils within the tank or by means of a coal tank heater.

The instantaneous type of gas water heater is a very popular design in certain sections. The smaller types are placed adjoining the fixture to which the hot water is supplied. These heaters do not heat the water until it is actually required for use, thus avoiding waste of heat.

Note—Range boilers and storage tanks should always be specified by dimensions rather than capacity. The listed capacities are nominal, having been established in the trade by long usage, and in some instances exceed the actual capacities. The actual contents in gallons of any round tank can be obtained by multiplying the square of the diameter in inches by the length in inches, and the product by .0034.



Plate W-3100

Plate W-3100. Hajoca seamless drawn copper range boiler, with brass couplings for iron pipe outside thread.

Height, inches	Diameter, inches	Nominal capacity, gallons	Hajoca No. 114, Regular	Hajoca No. 110, Extra Heavy	Boxing
60	12	30	\$65.00	\$85.00	\$2.00
53	14	35	75.00	95.00	2.00
60	14	40	85.00	105.00	2.25
68	14	45	100.00	120.00	2.25
60	16	50	140.00	170.00	2.50
70	16	60	160.00	190.00	2.50
44	20	60	210.00	250.00	3.50
96	16	80	200.00	240.00	3.50
59	20	80	250.00	290.00	3.50
76	20	100	300.00	350.00	5.00
60	24	100	325.00	375.00	5.00

Larger sizes—up to 300 gallons—prices on application.

On boilers, 12, 14 and 16-inch diameters, couplings are threaded $\frac{3}{4}$ -inch iron pipe; on larger sizes, 1-inch iron pipe.

Plate W-3102 (not illustrated). Hajoca copper range boiler with brass couplings for $\frac{3}{4}$ -inch iron pipe outside thread.

Height, inches	Diameter, inches	Nominal capacity, gallons	Hajoca No. 120	Hajoca No. 124	Boxing	Hajoca No. 128
60	12	30	\$48.00	\$41.00	\$1.00	\$38.00
60½	13	35	52.50	45.50	1.00	42.50
61	14	40	57.50	50.50	1.00	47.50
61	15½	50	78.00	68.00	1.00	60.00
61	17½	60	99.00	85.00	2.00	76.00
61½	19¼	80	119.00	105.00	2.00	95.00
62	21½	100	176.00	146.00	2.00	130.00

Hajoca No. 114 (regular) boilers are tested 200 pounds.

Hajoca No. 110 (extra heavy) boilers are tested 300 pounds.

Hajoca No. 120 boilers are tested 300 pounds.

Hajoca No. 124 boilers are tested 250 pounds.

Hajoca No. 128 boilers are tested 200 pounds.

A reliable working rule for the installation of the above copper range boilers is: The water pressure under which the range boiler is installed should not exceed $42\frac{1}{2}$ per cent. of the pressure at which the boiler has been tested.

Horizontal copper range boilers can be furnished in the above capacities.

NOTE—No boiler is guaranteed where the supply pipe may be frozen or where there is a check valve, pressure regulator or water supply meter on the supply line unless a safety or relief valve is placed on the boiler, or between the boiler and check valve, etc.

Plate W-3106. Hajoca "Quaker City" hand-made galvanized range boiler, with malleable iron head.



Plate W-3106

Height, feet	Diameter, inches	Nominal capacity, gallons	Hajoca No. 918 Regular	Hajoca No. 914 (extra heavy) or No. 916 (double riveted)	Hajoca No. 910 extra heavy and double riveted
3	12	18			
3½	12	21	\$14.50	\$17.50	\$20.50
4	12	24	15.50	18.50	22.00
			15.75	19.00	22.50
3	14	24	\$19.00	\$22.50	\$26.00
4½	12	27	18.50	21.00	25.00
3½	14	28	20.25	24.00	27.50
5	12	30	19.00	22.50	26.00
4	14	32	\$21.00	\$24.50	\$27.50
5	13	35	21.00	24.50	28.00
4½	14	36	21.50	25.50	29.00
5	14	40	24.00	27.50	31.00
4	16	42	\$26.00	\$30.00	\$34.00
4½	16	47	30.00	35.00	40.00
6	14	48	30.00	35.00	40.00
5	16	52	31.00	36.00	41.00
4	18	53	\$31.50	\$37.00	\$41.00
6	16	63	38.00	43.00	48.00
5	18	66	36.00	41.00	46.00
6	18	79	44.00	51.00	56.00
5	20	82	\$45.50	\$52.00	\$57.00
6	20	98	54.00	60.00	65.00
5	22	100	54.00	60.00	65.00
6	22	120	63.00	70.00	75.00
5	24	120	\$61.50	\$68.00	\$73.00
6	24	144	70.00	77.00	82.00
7	24	168	—	91.00	96.00
8	24	192	—	102.00	107.00

Hajoca No. 918 (regular) boilers are guaranteed for five years on any working pressure up to 85 pounds.

Hajoca No. 916 (double riveted) boilers are guaranteed for five years on any working pressure up to 100 pounds.

Hajoca No. 914 (extra heavy) boilers are guaranteed for seven years on any working pressure up to 100 pounds.

Hajoca No. 910 (extra heavy and double riveted) boilers are guaranteed for seven years on any working pressure up to 150 pounds.

Galvanized range boilers are regularly tapped with four 1-inch holes, two on top, one on the side and one at the bottom. Additional tappings, larger holes, or holes in special positions can be furnished at additional cost and when so specially ordered a sketch with measurements should always be submitted.

NOTE—No boiler is guaranteed where the supply pipe may be frozen or where there is a check valve, pressure regulator or water meter on the supply pipe, unless a safety or relief valve is placed on the boiler, or between the boiler and check valve, etc.

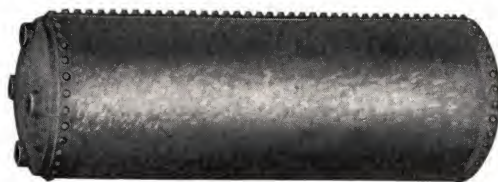


Plate W-3108

Hajoca "Quaker City" hand-made galvanized horizontal range boiler, with four 1-inch or $\frac{3}{4}$ -inch holes tapped in head.

Length, inches	Diameter, inches	Hajoca No. 918, Regular	Hajoca No. 914, Extra Heavy
30	10	\$12.75	\$15.00
32	10	12.75	15.00
34	10	12.75	15.00
36	10	12.75	15.00
42	10	13.50	16.75
48	10	16.00	19.50
54	10	19.25	22.50
60	10	21.75	25.00
30	12	\$14.50	\$16.50
32	12	14.50	16.50
34	12	14.50	16.50
36	12	14.50	16.50

Larger size galvanized horizontal boilers can be furnished corresponding to vertical circulating boiler sizes.

THE Hajoca No. 910, No. 914, No. 916 and No. 918 "Quaker City" hand-made range boilers are manufactured from a high grade of material, the heads being of malleable iron. The malleable heads will not rust thru.

We have been selling these boilers, both vertical and horizontal, for many years, and the very large numbers sold have given universal satisfaction. We recommend them for use where a strictly first-class and reliable article is desired.

NOTE—No boiler is guaranteed where the supply pipe may be frozen or where there is a check valve, pressure regulator or water meter on the supply pipe, unless a safety or relief valve is placed on the boiler, or between the boiler and check valve, etc.

Plate W-3110. Hajoca "Leader" galvanized rivetless range boiler. Made in three grades; for description see below.

Plate W-3112 (not illustrated). Hajoca "Pointer" galvanized riveted steel range boiler. Made in two grades; for description, see below.



Plate W-3110

List prices applying to all grades of Plates W-3110 and W-3112.

Height, feet	Diameter, inches	Nominal capacity, gallons	Price
3	12	18	\$14.50
3½	12	21	15.50
4	12	24	15.75
3	14	24	\$19.00
3½	14	28	20.25
5	12	30	19.00
4	14	32	\$21.00
5	14	40	24.00
4	16	42	26.00
5	16	52	31.00
5	18	66	\$38.00
5	20	82	45.50
5	22	100	63.50
5	24	120	72.50
6	24	144	103.00

Hajoca No. 948 (regular) rivetless steel boiler is guaranteed to be tight up to 85 pounds working pressure.

Hajoca No. 944 (extra heavy) rivetless steel boiler is guaranteed to be tight up to 150 pounds working pressure.

Hajoca No. 943 (double extra heavy) rivetless boiler is guaranteed for six years on any working pressure up to 150 pounds.

Hajoca No. 938 (regular) riveted steel boiler is guaranteed to be tight up to 85 pounds working pressure.

Hajoca No. 934 (extra heavy) riveted steel boiler is guaranteed to be tight up to 150 pounds working pressure.

Guarantees are against defects in material or workmanship, and are good up to the time of installation and test only. A range boiler that is tight at the time of the initial test will be tight for many years, unless subjected to some extraordinary conditions of water pressure, for which we cannot be responsible. These guarantees are to the extent of the cost of the boiler only, and do not include any allowance for replacement or consequential damage.

NOTE—No boiler is guaranteed where the supply pipe may be frozen or where there is a check valve, pressure regulator or water meter on the supply pipe, unless a safety or relief valve is placed on the boiler, or between the boiler and check valve, etc.



Plate W-3120

Hajoca pedestal cast iron boiler stand, 20 inches high.

	Plain	Galvanized
12-inch ring	\$	\$
14-inch ring	\$	\$
16-inch ring	\$	\$
18-inch ring	\$	\$
20-inch ring	\$	\$
22-inch ring	\$	\$
24-inch ring	\$	\$



Plate W-3124

Hajoca Universal boiler stand.

Bronzed, each \$

This stand will fit any make of boiler in any size up to 100 gallons. Just screw into the bottom of any range boiler, turn the lock nut plate up against the bottom of the boiler and the boiler and stand are connected. The tee provides connection to the water back and boiler drain faucet.

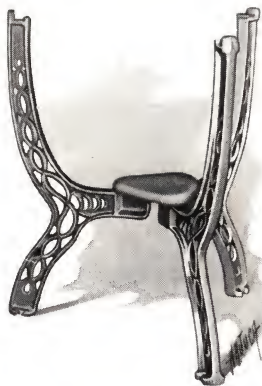


Plate W-3122

Hajoca adjustable cast iron boiler stand 15 inches high, adjustable for 12, 13 or 14-inch boilers.

Plain, each	\$
Galvanized, each	\$

THE center plate is plainly marked so that adjustments can be quickly and easily made; the stand can be knocked down for shipment, shop or storage purposes, taking up little space.



Plate W-3126

Hajoca cast iron boiler ring, tapped, 1 inch.

	Plain	Galvanized
12-inch	\$	\$
14-inch	\$	\$
16-inch	\$	\$
18-inch	\$	\$
20-inch	\$	\$
22-inch	\$	\$
24-inch	\$	\$

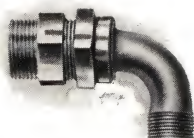


Plate W-3130

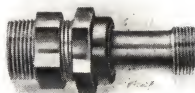


Plate W-3131

Hajoca brass ground joint boiler couplings for iron pipe.

Size of coupling, inches.....	$\frac{3}{4}$	$\frac{3}{4}$
Size of spud, inches.....	$\frac{3}{4}$	1
Plate W-3130, bent, each.....	\$1.50	\$1.50
Plate W-3131, straight, each.....	1.30	1.30
For spud tapped for tube, add.....	.05	.05

A set of boiler couplings consists of one straight and three bent couplings, with one spud in each set tapped for boiler tube; couplings with 1-inch spuds will always be furnished unless otherwise specified.



Plate W-3133
Union Elbow Short Pattern



Plate W-3140
Union Elbow Long Pattern



Plate W-3144
Union Socket Short Pattern



Plate W-3146
Union Socket Long Pattern

Hajoca galvanized iron boiler couplings.

Outside thread and tapping, inches... $\frac{3}{4} \times \frac{1}{2}$	$\frac{3}{4} \times \frac{1}{2}$	$1 \times \frac{1}{2}$	$1 \times \frac{1}{2}$	$1 \times \frac{3}{4}$
Inside thread end, inches..... $\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Plate W-3138, Union elbow, short, each	\$0.75	\$0.60	\$0.75	\$0.75
Plate W-3140, Union elbow, long, each	.75	.60	.75	.75
Plate W-3144, Union socket, short, each	—	.60	.75	.75
Plate W-3146, Union socket, long, each	.60	.75	.60	.75

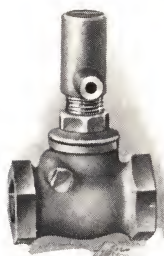


Plate W-3150

Hajoca combination swinging check and water pressure relief valve; rough brass.

Sizes, inches. $\frac{1}{2}$ $\frac{3}{4}$
Each. \$ \$

This valve combines the practical advantages of the relief valve shown in Plate W-3152 and a horizontal swinging check valve affording protection to the range boiler in case excessive pressure is developed.

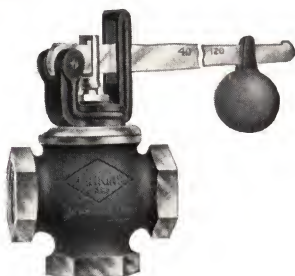


Plate W-3154

Brass safety valve, with lever and weight; cross pattern as shown, or angle pattern.

	Jenkins Bros.	Standard
$\frac{1}{2}$ -inch.	\$	\$
$\frac{3}{4}$ -inch.	\$	\$
1 -inch.	\$	\$
$1\frac{1}{4}$ -inch.	\$	\$
$1\frac{1}{2}$ -inch.	\$	\$
2 -inch.	\$	\$

Can be furnished in larger sizes, with iron body.

THE above safety and relief valves when used with kitchen range boilers or on the supply lines leading to them will prevent explosions in case excessive steam pressure is generated in the range boiler, or should the water pressure become excessive. The outlets can be piped, thus avoiding flooding of the kitchen or cellar in case the valve blows off.



Plate W-3152

Hajoca water pressure relief valve; rough brass.

Size, $\frac{1}{4}$ inch with relief outlet threaded for $\frac{1}{8}$ inch.

Each. \$

This valve may be inserted in any convenient place on the house main line to protect the range boiler in case excessive pressure is generated. The relief is thru an arm which is threaded $\frac{1}{8}$ inch for piping the discharge in case this may be necessary.



Plate W-3155

Hajoca water pressure relief valve; brass, semi-finished.

$\frac{1}{2}$ or $\frac{3}{4}$ -inch	\$
1 -inch.	\$
$1\frac{1}{4}$ -inch.	\$
$1\frac{1}{2}$ -inch.	\$
2 -inch.	\$

When ordering, state pressure at which valve is to blow off.

Plate W-3160. Hajoca galvanized combination range boiler and water heater (boiler stand, drain faucet and couplings not included).

Plate W-3161 (not illustrated). Hajoca galvanized combination automatic storage tank and gas water heater with thermovalve.

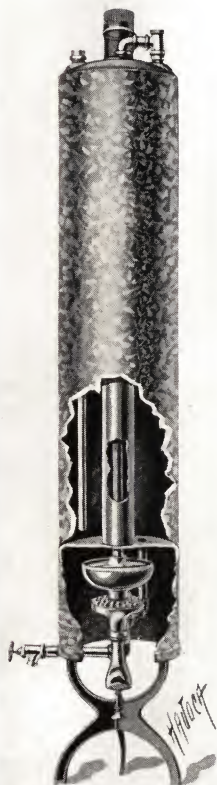


Plate W-3160

Size No.	Height of shell, feet	Diameter of shell, inches	Plate W-3160	Plate W-3161
18	3	12	\$	\$
24	4	12	\$	\$
30	5	12	\$	\$
32	4	14	\$	\$
40	5	14	\$	\$

The No. 18 size is suitable for barber shops and other places requiring a moderate supply of hot water.

The No. 24 and No. 30 sizes are recommended for residences equipped with one bath, two or three lavatories and kitchen sink.

The No. 32 is a short size and suitable for installation where the ceiling is low.

The No. 40 size will take care of two baths, three or four lavatories, kitchen sink and laundry tray.

THIS unit, Plate W-3160, combining the range boiler and gas water heater, is a space saver, gas saver and much more satisfactory for installation and use than a separate boiler and independent side heater.

Plate W-3161 maintains at all times a supply of hot water in the boiler for immediate use. It is similar in construction to Plate W-3160, with the addition of a thermovalve, which automatically turns on the gas and relights it from a pilot light as soon as the temperature of the water in the boiler falls below a fixed point. In like manner the gas is turned off automatically when the water is sufficiently heated.

The burners are specially designed to obtain the highest heat value from the gas consumed. What heat is not utilized in the live flame gives up its caloric value as it passes thru the center flue extending up the entire length of the boilers, and in that way water is heated in much less time than with the independent heater and with a corresponding saving in gas.

All flat surfaces, pockets and dead ends are eliminated in the water spreaders; this prevents liming up and assists in a constant and rapid circulation.

These units have given excellent service results in thousands of installations, and we recommend them for homes, apartments, stores and shops.

Plate W-3162. Independent gas water heater, with cast iron jacket and two $\frac{3}{4}$ -inch spiral copper coils.

Diameter, 7 inches; height, $24\frac{1}{2}$ inches; gas supply, $\frac{1}{2}$ inch; capacity, 30 or 40 gallon range boiler.

Each.....\$

THE burner is powerful, well made and detachable, with an adjustable air shutter; a cast iron drip pan beneath the burner catches burnt matches, dirt, etc., keeping the floor underneath clean.

Twenty feet of seamless copper pipe made into two coils form spirals on which the flame plays and expends its heat units. Both coils are connected at top and bottom by brass manifolds securely brazed. The casing is cast iron with a front hinged door extending its entire length, making the coil and burner easily accessible for cleaning.

This heater is placed along side the range boiler and supported by the piping; it can be used independently, or where the boiler is also connected to the range. Hot water can be drawn within a few minutes after lighting.



Plate W-3162



Plate W-3166

Plate W-3166. Independent kerosene water heater, with cast iron jacket and door and four spiral copper coils.

Diameter of heater, 6 inches; diameter of base, 8 inches; space required for base and reservoir, 17×12 inches; height, $28\frac{1}{2}$ inches.

As described.....\$

THIS heater contains four heavy copper coils so constructed that the hot gases strike the spirals many times before reaching the vent pipe. Hot water is generated at an economical consumption of kerosene. This heater has been tested and approved by the Good Housekeeping Institute and will give satisfactory service on a 30-gallon range boiler.

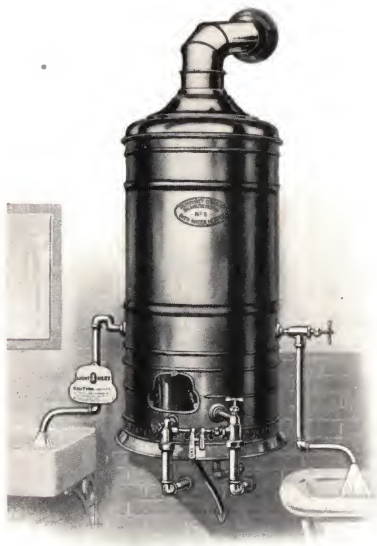


Plate W-3168

Plate W-3170. No. 0 Instantaneous gas water heater, nickel plated, with spout, shelf, brackets and unions.

Dimensions—Height, 24 inches; diameter, 12 inches; will raise from 2 to 2½ gallons of water 50 degrees in one minute.

Each.....\$

This heater does not require any vent or drip pipe. Supply pipes and additional spout can be furnished when specially ordered.

Plate W-3168. Instantaneous gas water heater, nickel plated.

No.	Height, inches	Diameter, inches	Heats gal- lons per min- ute 50° in	Price
			temperature	
2	36	12	2½	\$
6	30	12	3	\$
8	30	10¼	2½	\$

Prices include shelf, safety valves, unions and one bent outlet spout; additional spout, supply pipes, drip pipe and vent pipe extra. Each heater should be connected to a vent for which we furnish when specially ordered a 3½-inch nickel-plated elbow, collar and 30-inch length of vent pipe.

No. 2 heater is non-contact; that is, the heated gases do not come in contact with the water, so that it can be used for drinking or cooking. Nos. 6 and 8 are contact heaters, and the hot water is suitable for baths, etc., but not for drinking.



Plate W-3170

HEATERS as shown Plates W-3168 and W-3170 are placed in the bathroom or kitchen immediately adjoining the fixture to which the hot water is to be supplied, and deliver hot water within a few seconds after lighting the gas and turning on the water. When enough has been drawn, water and gas are turned off together. The heaters are made of copper, highly polished and nickel plated and are equipped with safety valves and pilot light, and the large burner cannot be lighted without opening the water valve.

Instantaneous heaters are furnished with burners to suit artificial gas unless otherwise ordered.



Plate W-3174

Hajoca storage tanks. These tanks are furnished horizontal or vertical at the same price.

Weight			Standard		Extra heavy		Double extra heavy	
Working pressure.....			65 pounds		100 pounds		150 pounds	
Tested pressure.....			130 “		200 “		300 “	
Length, feet	Diameter, inches	Nominal capacity, gallons	Shell No. 10; heads $\frac{1}{4}$ ”		Shell $\frac{3}{16}$ ”; heads $\frac{1}{4}$ ”		Shell $\frac{1}{4}$ ”; heads $\frac{3}{8}$ ”	
			Plain	Galvanized	Plain	Galvanized	Plain	Galvanized
5	30	180	\$	\$	\$	\$	\$	\$
6	30	215	\$	\$	\$	\$	\$	\$
7	30	250	\$	\$	\$	\$	\$	\$
8	30	300	\$	\$	\$	\$	\$	\$
10	30	372	\$	\$	\$	\$	\$	\$
5	36	265	\$	\$	\$	\$	\$	\$
6	36	325	\$	\$	\$	\$	\$	\$
7	36	365	\$	\$	\$	\$	\$	\$
8	36	420	\$	\$	\$	\$	\$	\$
10	36	530	\$	\$	\$	\$	\$	\$

Manhole in head or shell, also handhole, can be furnished at additional cost. Made also with coils, see page 317.

THE quality of the material used and the method of construction make these tanks dependable in every particular. Attention is called to the gauge or thickness of shells and heads.

Where subjected to sudden or unusual pressures, as when connected direct to a city pumping station, and the pressure is increased during times of conflagration, the use of a water pressure reducing valve is recommended.

When ordering, state if vertical or horizontal, plain or galvanized tanks are wanted. A sketch should always be furnished showing size and location of tappings, also of manhole and handhole, if required.



Plate W-3176

No. 2 X laundry stove and heater

Number	2 X
Tank capacity, gallons	60
Size of tapping, inches	1
Each	\$



Plate W-3178

No. 119 laundry stove and tank heater

119	120	62	63
90	150	200	250
1	1½	2	2
\$	\$	\$	\$

NOTE—The capacities listed represent the size of tank which experience has shown the heaters will supply for ordinary family use, and are also based on adding about 25 degrees of temperature to the water per hour, when connected to a tank of ample storage capacity. Where greater capacities are required than the above heaters will yield, we can furnish larger sizes and our customers are invited to make use of our service in determining the proper size of heater for any stated conditions. Such problems will receive careful attention.



Plate W-3180

No. 63 tank heater

The tank heater is an indispensable necessity, where a copious supply of hot water is needed. The smaller sizes are attached to an ordinary range boiler to provide hot water when the coal range is not in use, or when an extra supply is required, as on wash day. The larger sizes may be connected to large storage tanks to supply the greater demands for hot water of hotels and apartment houses, restaurants, stores, barber shops, office buildings, laundries, bath houses, etc. They may also be attached to radiators for heating small buildings, such as garages, stables, farm buildings, brood houses, signal towers, etc. Large roof tanks can be prevented from freezing by connecting to one of these heaters.

Our tank heaters are especially economical in fuel consumption, a few shovels of coal per day being all that is required. They are scientifically constructed, are simple and easy to operate, and with reasonable care will last a lifetime. When placed on water systems of more than 40 to 50 pounds pressure, a pressure reducing valve should be used.

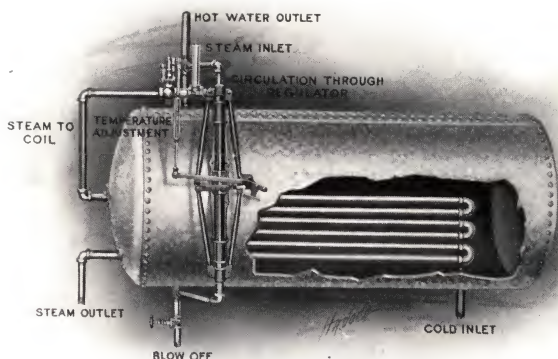


Plate W-3182

Hajoca horizontal storage tank with steam coil and automatic temperature regulator.

The automatic temperature regulator is a valuable addition to any hot water storage tank in which the water is heated by steam. The expansion caused by the hot water circulating thru the regulator automatically closes the valve thru which the steam passes to the coils in the storage tank, and thus prevents waste of steam and overheating of the water.

The regulator is simple and practically indestructible. It has no delicate parts and requires no auxiliary steam, compressed air, water or electrical connections to operate it, thus avoiding all trouble and expense to keep it in order. By means of a simple temperature adjustment it can be set to operate at any temperature desired.

The valve of the regulator should be the same size as the tank coil.

Size of valve, inches.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Each.....	\$	\$	\$	\$	\$	\$	\$

Prices include regulator, steam valve, levers and temperature adjustment, but no piping.

STORAGE tanks as shown Plate W-3174, also many kinds of range boilers, can be fitted with coils for heating the water by live or exhaust steam; these coils are made of plain or galvanized wrought pipe, brass pipe or copper pipe. In horizontal tanks these coils are made from straight pieces of pipe with return bends, and may enter at the end as shown Plate W-3182, or at the side; in vertical tanks they are made spiral, as shown Plate W-3184. All tanks containing coils should be fitted with a manhole.

The amount of hot water generated depends upon the diameter and length of the coils, and the pressure of steam supplied; size of coil must be determined by the heating contractor, who alone is familiar with the conditions surrounding the installation. We will gladly co-operate with our customers in the solution of hot water heating problems and in determining capacities of tanks for any stated conditions.

Orders and inquiries should be accompanied by a sketch giving size, weight and material of tank; size, kind and length of coil; size and location of all tappings, also of manhole and handhole, if required.



Plate W-3184
Vertical Storage Tank
with Spiral Coil



Plate W-3190

Plate W-3190. Brass hose angle valve, rough body with iron wheel.

Sizes, inches.	1½	2
Jenkins, each.	\$	\$
Standard, each.	\$	\$

Globe hose valves furnished at the same prices.

Plate W-3192. Brass hose gate valve, rough body with iron wheel.

Sizes, inches.	1½	2
Jenkins, each.	\$	\$
Kennedy, each.	\$	\$



Plate W-3192

Note. Hose valves are regularly furnished with iron pipe thread* on the hose end. They can be furnished with brass wheels and with body polished or nickel plated. Prices on application.

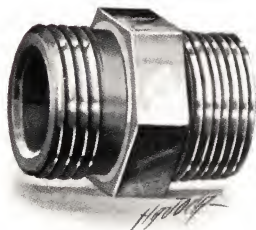


Plate W-3194

Hajoca brass hose nipple.

1½-inch, iron pipe thread,* each. \$
2-inch, iron pipe thread,* each. . . \$



Plate W-3196

Hajoca polished brass hose pipe.

Length, inches.....	12
1½-inch, iron pipe thread,* each.\$	
2-inch, iron pipe thread,* each...\$	

*Iron pipe thread for 1½-inch and 2-inch hose couplings, hose pipes, and the hose end of hose nipples, is the same gauge as regular iron pipe thread except that it is made straight, without taper.

Plate W-3198. Linen underwriters' fire hose.

Sizes, inches..... 1½ 2

Per foot.....\$ \$

For brass expansion ring couplings with iron pipe thread, add per pair.....\$ \$

When couplings are ordered with hose, no charge will be made for attaching.

LINEN hose is intended for brief use in case of fire inside of schools, mills, factories, apartment houses, hotels, office buildings, etc. It is light in weight, is easily handled by one man, folds up compactly on the rack or reel and has no rubber lining to deteriorate or become stuck together by the warmth of the room.

It is not strong enough for frequent or rough handling, nor suitable for outdoor use, and is liable to rot if not kept dry or if the valve is allowed to leak.

We recommend lengths not longer than 100 feet, on account of loss of pressure from friction on longer lengths.

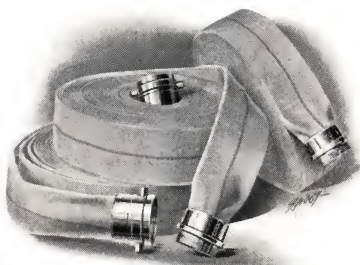


Plate W-3198

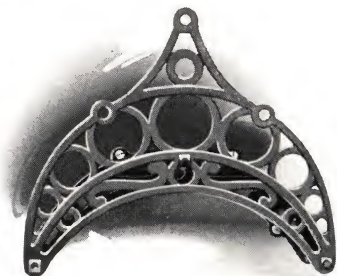


Plate W-3200

Hajoca saddle hose rack.

Japanned red on iron, each.....\$

THE saddle hose rack is ruggedly built, and can be furnished in any width. The quantity that can be placed upon it depends upon the length of the folds. When ordering, state size and quantity of hose to be used.



Plate W-3202

Hajoca swinging fire hose rack, with wall bracket or with pipe clamps.

Capacity, 1½ or 2-inch, linen
hose, feet..... 75 150
Japanned red on steel, each..\$ \$

When ordering Plate W-3202, specify if wanted with wall bracket or pipe clamps. When required with pipe clamps, this rack will also be furnished with a japanned red iron pipe thread nipple to screw into the hose valve without extra charge if ordered with the rack. Nipples with special threads are extra.

THE pins supporting the hose in Plate W-3202 swinging rack are permanently attached and do not fall on the floor when the hose is removed. The water can be turned on before pulling the hose, as the flow is held back by the first loop until all the hose has been removed.



Plate W-3300



Plate W-3302

Hajoca No. 24 floor drain and trap, iron body, with polished brass top and perforated hinged strainer.

Diameter, inches. . . .	9	11	13
Height, inches.	8	11	13
Outlet for iron pipe, inches.	2	3	4
Each.	\$	\$	\$

Hajoca No. 25 floor drain and trap, iron body, with polished brass top, perforated hinged strainer and hinged solid cover.

Diameter, inches. . . .	9	11	13
Height, inches.	8	11	13
Outlet for iron pipe, inches.	2	3	4
Each.	\$	\$	\$

These floor drains have large capacity, and are suitable for use in concrete floors, under showers, and wherever a strong and permanent job is desired. Where the floor is flushed only occasionally, the cover as shown Plate W-3302 saves wear on the perforated strainer and prevents it from becoming clogged with mud and dirt.



Plate W-3303

Plate W-3303. Hajoca cast brass hospital floor drain, with hinged cover, valve and key.

8 x 8 inches, with outlet for 3-inch iron pipe, each. \$

THIS floor drain is intended for use in hospital operating rooms, etc., and is so arranged that the lid cannot be closed until the valve is screwed down. The valve has a ground joint brass seat, an additional safeguard against sewer gas.

HAJOCA floor drains are designed to insure sanitation in the completest sense of the word; they are carefully and ruggedly built to give permanence of service and lasting satisfaction.



Plate W-3305

Plate W-3305. Hajoca No. 14 floor drain, body and trap galvanized, with polished brass top and perforated hinged strainer.

Diameter, inches.....	9	11
Height, inches.....	14	14
Outlet for iron pipe, inches.....	2	3
Each.....	\$	\$

Hajoca No. 15 floor drain as above, except with additional solid cover (as on Plate W-3302).

Each.....	\$	\$
-----------	----	----

Plate W-3306. Hajoca "Josam" double drainage waste connection, iron body with nickel-plated brass strainer and collar.

No. 300, 2-inch I. P. outlet, 4-inch strainer, each \$
No. 301, 3-inch I. P. outlet, 5-inch strainer, each \$

This connection is especially adapted for floors or stalls where a trap cannot be conveniently located.

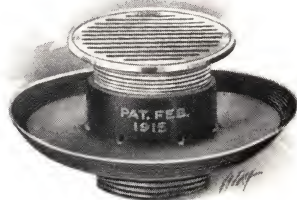


Plate W-3306



Plate W-3308

Plate W-3308. Hajoca "Josam" double drainage combined floor drain and trap, iron body with nickel-plated brass strainer and collar.

No. 200-A, 1½-inch I. P. outlet, 4-inch strainer, each.....	\$
No. 203-A, 2-inch I. P. outlet, 5-inch strainer, each.....	\$
No. 207-A, 3-inch I. P. outlet, 6-inch strainer, each.....	\$
No. 2003-A, 2-inch hub outlet, 6-inch strainer, each.....	\$

THE Hajoca "Josam" combined floor drains and traps are designed to insure double drainage. The collar screwing into the body of the drain is adjustable to suit different floor thicknesses, such as may be encountered in the construction of shower and urinal stalls or floors made of concrete, tile, marble or other composition. The extended flange catches any seepage between the outside of the collar and floor construction, draining it into the trap thru the drainage holes, thus preventing leaks to the ceiling below and assuring safe and double drainage.

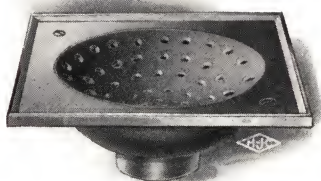


Plate W-3330



Plate W-3331

Hajoca No. 931 plain cast iron cesspool.

Sizes, inches. 10 x 10 12 x 12

Each. \$ \$

Hajoca No. 934 cast iron cesspool with outlet to caulk over 4-inch soil pipe.

12 x 12 inches, each. \$

ON Plate W-3331 the outlet caulks over 4-inch soil pipe to which it is held in place by three set screws. The grate is bolted to the body inside the outer flange and can be removed without breaking the joint between the body and concrete or other floor.



Plate W-3334



Plate W-3336

Hajoca No. 949 cast iron round top cesspool with hinged strainer; diameter, 9 inches.

Outlet, inches. 4

Each. \$

Hajoca No. 951 cast iron round top cesspool with hinged strainer and side outlet; diameter, 9 inches.

Outlet, inches. 4

Each. \$

On Plates W-3334 and W-3336 the outlet has a bead to caulk into 4-inch soil pipe.



Plate W-3342

Hajoca No. 65 cast brass cesspool.
6 x 6 inches, tapped for 2-inch iron pipe,
each.....\$

The strainer is countersunk and can be removed when necessary. This cesspool is well adapted for use as a refrigerator drain.

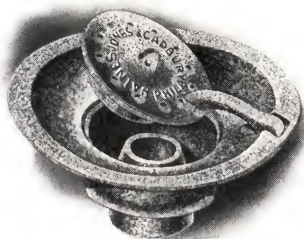


Plate W-3344

Hajoca No. 964 cast iron refrigerator drain.

Diameter, 9 inches; outlet is tapped for 1½-inch iron pipe.

Plain, each.....\$
Galvanized, each.....\$

ON Plate W-3344 the drain is made with hinged lid, so that the bell trap and waste pipe can be easily cleaned. The lid can be lifted by attaching a wire or chain to the eye in the top without moving the refrigerator.

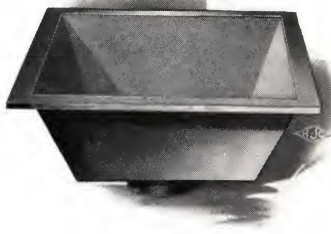


Plate W-3350

Hajoca No. 957 cast iron hydrant cesspool.

10 x 10 inches, each.....\$
12 x 12 inches, each.....\$
14 x 14 inches, each.....\$

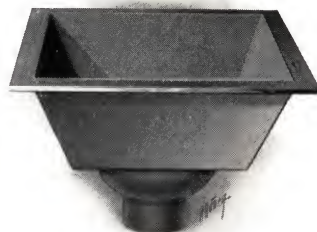


Plate W-3352

Hajoca No. 958 cast iron hydrant cesspool with bell trap.

12 x 12 inches, each.....\$
14 x 14 inches, each.....\$

HAJOCA cast iron cesspools are made in our foundry at Norristown, Pa.; a high grade of iron is used, the patterns are heavy and the castings are clean and smooth.

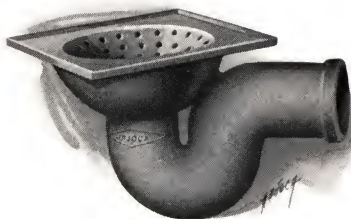


Plate W-3354

Hajoca No. 932 cast iron plain cesspool with "P" trap for 4-inch soil pipe.

12 x 12 inches, each \$



Plate W-3356

Hajoca No. 938 cast iron bell trap cesspool.

10 x 10 inches, each \$

12 x 12 inches, each \$

Plate W-3354 is intended for cellar floors, and other places where it is desired to run the waste pipe horizontally. It insures a tight joint between cesspool and trap, and the outlet is long enough to be easily caulked. The outlet is near the ground level, requiring only a shallow trench and saving a large amount of digging.

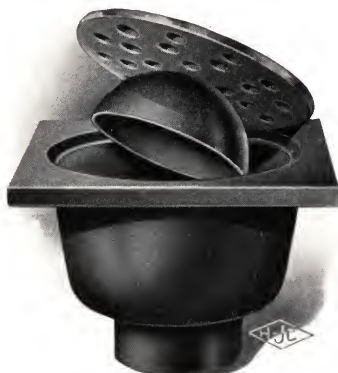


Plate W-3358

Hajoca No. 940 bell trap cesspool with hinged top.

Size, inches	Plain cast iron	Iron body, pol. brass top	All brass, pol. top
6 x 6,	\$	\$	\$
6 x 6, outlet 2" I. P. inside thread	\$	\$	\$
8 x 8,	\$	—	—
9 x 9,	\$	\$	\$
10 x 10,	\$	—	—
13 x 13,	\$	—	—

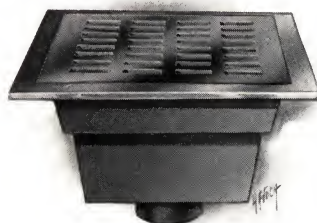


Plate W-3360

Hajoca No. 974 extra heavy cast iron stable cesspool, with inside grate and bell trap.

12 x 12 inches, each \$

14 x 14 inches, each \$

16 x 16 inches, each \$

Plate W-3361 (not illustrated; see Plate W-3360). Hajoca No. 974 extra heavy cast iron stable cesspool, with inside grate, Philadelphia Regulation, with outlet to caulk over 4-inch soil pipe (no bell trap).

12 x 12 inches, each \$

14 x 14 inches, each \$



Plate W-3362

Hajoca No. 902 cast iron stop box.
6 x 6 inches, hinged, each \$
6 x 6 inches, hinged, extra heavy,
each \$



Plate W-3364

Hajoca cast iron street washer box.
10 x 10 inches, each \$

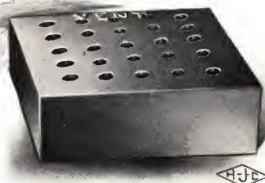


Plate W-3366

Hajoca No. 902 cast iron vent box.
6 x 6 inches, each \$
6 x 6 inches, extra heavy, each \$



Plate W-3368

Hajoca extra heavy cast iron sand trap
with hub to suit 4-inch soil pipe.
14 x 14 x 18 inches deep, each . . . \$
Same, with brass cleanout plug in
outlet bend \$

THIS trap has a positive seal and prevents sand and other solid waste matter from entering the drainage system. It intercepts solid matter only, allowing liquid waste freely to enter the waste pipe. The trap when filled with sediment can be easily cleaned out by removing the grate. It is indispensable for garages, carriage houses, bath houses, stables, dairies, etc.

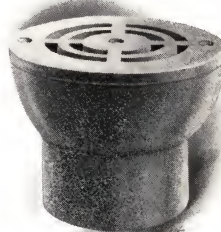


Plate W-3370

Hajoca No. 910 "Adelphia" cast iron vent box; diameter of top, 8 inches; outlet fits over 4-inch soil pipe.
Each \$

THIS vent box complies with the requirements of the Philadelphia Bureau of Health. The total area of the openings in the top equals three-quarters of the area of the soil pipe.

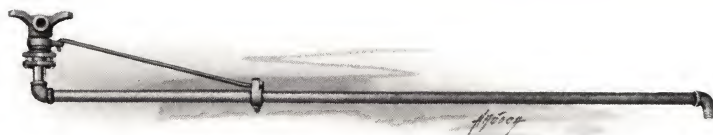


Plate W-3372

Hajoca overhead auto or carriage washer with all brass self-grinding body, iron ceiling plate and $\frac{3}{4}$ -inch x 5-foot iron extension pipe and brace, each.....\$

THIS washer is a most practical and welcome accessory for the garage and stable. It is a time saver and requires only a small quantity of hose which does not snarl up or lie on the floor. The vehicle can be played upon from any point by merely revolving the arm. The hose and nozzle are not included with the above.

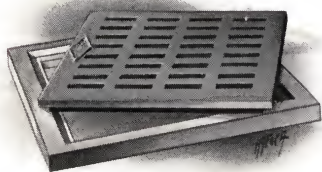


Plate W-3382

Hajoca extra heavy cast iron cesspool grate and frame.

14 $\frac{1}{4}$ x 14 $\frac{1}{4}$ inches outside with grate
12 $\frac{1}{4}$ inches square, each.....\$

31 $\frac{1}{2}$ x 19 inches outside with grate
30 x 18 inches, each.....\$



Plate W-3384

Hajoca extra heavy cast iron cesspool grate and frame.

18 x 18 inches outside with grate 14
inches square, each.....\$



Plate W-3386

Hajoca cast iron manhole frame and cover.

33 x 21 inches outside; flange, 39 x 27 inches; depth, 4 inches, each.....\$

Plates W-3382, W-3384 and W-3386 are extra heavy and suitable for severe service.



Plate W-3388

Hajoca cast iron square manhole frame and cover.

Nominal sizes, inches	Size of opening, inches	Size of top, inches	Size of outer flange, inches	Depth over all, inches	Each
12 x 12	$11\frac{3}{4} \times 11\frac{3}{4}$	$12\frac{1}{2} \times 12\frac{1}{2}$	16 x 16	3	\$
16 x 16	$15\frac{3}{4} \times 15\frac{3}{4}$	$16\frac{1}{2} \times 16\frac{1}{2}$	22 x 22	4	\$
18 x 18	$17\frac{3}{4} \times 17\frac{3}{4}$	$18\frac{1}{2} \times 18\frac{1}{2}$	24 x 24	$4\frac{1}{2}$	\$
24 x 24	24 x 24	25 x 25	31 x 31	$4\frac{1}{2}$	\$

These manholes are not heavy enough for roadway use.



Plate W-3390

Hajoca extra heavy cast iron round manhole frame and cover, with flange.

Diameter of opening, inches	Diameter of top, inches	Outside diameter of flange, inches	Depth, inches	Each
13	$14\frac{1}{4}$	17	$3\frac{1}{2}$	\$
22	$23\frac{1}{2}$	$27\frac{1}{2}$	$3\frac{1}{2}$	\$

Plate W-3390 is extra heavy and suitable for severe use.

Plate W-3391 (not illustrated). Hajoca cast iron round manhole frame and cover, with flange.

Diameter of opening, inches	Diameter of top, inches	Outside diameter of flange, inches	Depth, inches	Each
22	$23\frac{1}{2}$	$27\frac{1}{2}$	$3\frac{1}{2}$	\$

Plate W-3391 is not heavy enough for roadway use.

HAJOCA HOSPITAL FIXTURES

BY far the greater numbers of plumbing fixtures used in the construction of the modern hospital building are such as have already been illustrated in the foregoing pages of this catalog.

Hajoca Plumbing Fixtures are pre-eminently suited for hospital requirements; our goods are sanitary to the most minute detail; they can be quickly and readily kept in a state of scrupulous cleanliness; and the parts subjected to the wear and tear incident to continuous public use are designed for long-lived service.

In both the clinical and private practice of modern surgery and therapy, however, highly specialized types of plumbing fixtures are frequently wanted. Usually such fixtures are designed for specific purposes and built to comply with the requirements of the profession.

On account of the special nature of such work, we have purposely omitted from this general catalog all illustrations and descriptions of our special hospital fixtures, except the two surgeon's lavatories shown on the following pages.

Because of our recognized ability along these lines, we are often consulted by architects and physicians when preparing plans requiring modern plumbing equipment.

We invite opportunities to co-operate in this work and will gladly place the practical results of our experience at the service of any one interested.

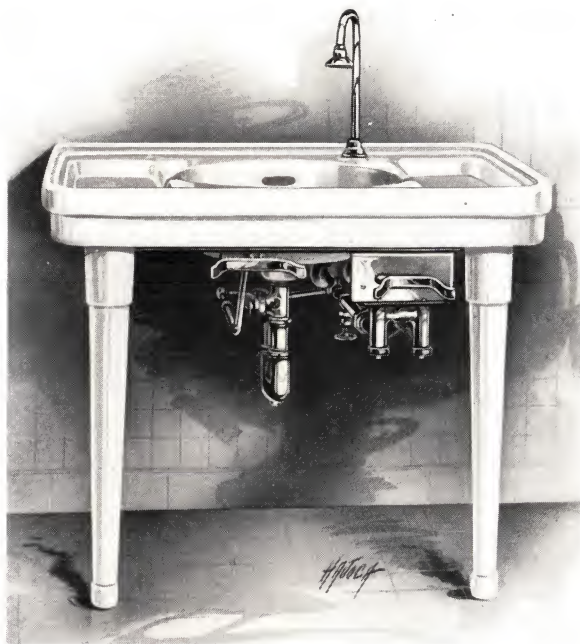


Plate W-3400

Hajoca No. 479 Vitreo china straight front surgeon's lavatory with Vitreo china legs and nickel-plated wall supports, knee action lifting-plug waste and knee action double supply valve for hot and cold water, goose-neck supply nozzle with removable rose spray, $\frac{1}{2}$ -inch iron pipe weight supply pipes to wall with wheel handle stops and $1\frac{1}{2}$ -inch No. 22 trap to wall.

Dimensions—Lavatory, 36 x 24 inches; main basin, 17 x 13 inches; trays, $14\frac{1}{2}$ x $6\frac{1}{2}$ inches.

As described.....\$

When desired our surgeon's lavatories can be equipped with open strainers in place of knee action lifting-plug wastes; all washing can then be done in running water, as there is no plug to retain a body of water in the basin.

FOR clinic or private practice there is no material for lavatories equal to Vitreo china. The "body" is highly vitrified thruout and is absolutely non-absorbent. The surface is covered with a thick, rich glaze, handsome in appearance and easily kept spotless and clean, and will not craze or discolor.

On the above lavatory the trays at either side drain into the main basin and are deep enough so that water or solutions can be poured over any instruments put into the trays. The water supply, which enters by the nozzle on top of the lavatory, is controlled by the knee in the right-hand yoke under the slab. In this way cold, mixed or hot running water is obtained without manually touching any part of the fixture. The basin outlet is opened and closed by means of the yoke on the left.

The high goose-neck nozzle with rose spray delivers a broad stream at a convenient height for rinsing the hands and arms. For style of low nozzle, see Plate W-3402.



Plate W-3402

Plate W-3402. Hajoca No. 232 "Marion" porcelain enameled apron lavatory with back and overflow, concealed hanger, nickel-plated plug, chain and chain ring, No. 75 treadle supply valve for hot and cold water, low supply nozzle, 1/2-inch iron pipe weight supply pipe from valve to nozzle, and 1 1/4-inch No. 22 tap to floor.

Sizes, inches	Basin, inches	As described
21 x 17 x 8	15 x 10 1/2	\$
24 x 18 x 10	16 x 11	\$
24 x 20 x 10	16 x 11	\$
24 x 20 x 12	16 x 11	\$
27 x 22 x 12	17 x 12	\$

A depressed integral soap dish is furnished with the 21 x 17 and 24 x 18-inch sizes.

If with goose-neck supply nozzle with rose spray, as shown, W-3400, add \$

Plate W-3404. Hajoca No. 75 nickel-plated treadle supply valve for hot and cold water, with operating pedals marked "H" and "C."

Each.....\$

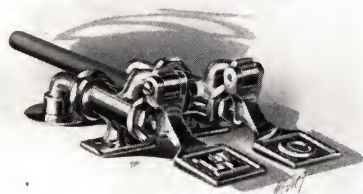


Plate W-3404

Plate W-3406 (not illustrated). Hajoca No. 84 nickel-plated treadle supply valve for hot and cold water concealed in the floor, with operating pedals marked "H" and "C."

Each.....\$
Same, for cold water only.....\$

Tho the No. 84 treadle valve is concealed in the floor, all its working parts can be taken up without disturbing or disconnecting any piping, a practical feature highly appreciated whenever it becomes necessary to re-washer the valve.

TREADLE supply valves are intended for use in hospitals, medical laboratories, clinics and physicians' offices in connection with lavatories or sinks. The water supply is entirely controlled by pressure of the feet, and the danger of carrying germs by handling the basin faucet is entirely avoided. Treadle valves may also be applied to many of the lavatories and sinks shown in this catalog.

CONDITIONS AND GENERAL INFORMATION

Prices, descriptions and illustrations in Catalog "W" supersede those in all previous catalogs, and are subject to change without notice.

ORDERS

Orders for goods not regularly carried in stock by Haines, Jones and Cadbury Company are accepted with the distinct understanding that they are not subject to cancellation for any reason whatever after work has been started on such orders.

All orders are subject to acceptance by the home office. The Haines, Jones and Cadbury Company shall not be liable for delays caused by strikes, carriers, accidents or other causes beyond its control.

To avoid error, delay and useless correspondence, customers are requested to use descriptions and plate numbers given in this catalog when ordering or asking for quotations; also to address all correspondence to the Haines, Jones and Cadbury Company and not to individuals.

PACKING, SHIPMENT, ETC.

Goods are carefully packed by experienced men, and the best approved methods are used to insure the correct filling of orders. Care should be exercised in unpacking goods, as many claims for shortage are caused by small articles being overlooked.

Goods are shipped F. O. B. carrier's car, boat or wagon, and when goods have been shipped to a customer, and have been receipted for by the Transportation Company in good condition, responsibility of the Haines, Jones and Cadbury Company ends. The Company is always ready and willing to furnish duplicate bills of lading and otherwise render assistance in making claims for damages on the Transportation Company. Shipments should be examined carefully before being accepted from the carrier.

GUARANTEE, CLAIMS AND RETURNED GOODS

We guarantee material sold, but only to the extent of supplying perfect goods for any found defective thru fault of manufacture, and no claims for labor, cartage or consequential damages are to be made or allowed. Should any goods be found defective in manufacture, the measure of damage shall be the price of the defective piece and shall be payable when such defective piece is returned to Haines, Jones and Cadbury Company and found by it to be defective.

All claims for allowances must be made within ten days from receipt of bill.

No goods to be returned or credited without the consent of Haines, Jones and Cadbury Company. Material other than goods specially ordered or goods not regularly carried in stock by Haines, Jones and Cadbury Company returned when order has been properly filled will be credited less freight and 10% for handling.

Returned goods should bear the name and address of the firm returning them, who will be responsible for their condition until actually received at Haines, Jones and Cadbury Company's warehouse.

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